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UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

1 REGISTRATION NO. 14-R-0003

FORM APPROVED OMB NO 0579-0036

HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA include Zip Code)

14-R-0003, Cust ld 100

(b)(6), (b)(7)c

DANA-FARBER CANCER INSTITUTE

44 BINNEY ST

ONE JIMMY FUND WAY

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching BOSTON, MA 02115 sheets if necessary.)

ional

#### **FACILITY LOCATIONS (Sites)**

#### Redstone Building

Smith Research Bldg. Floor 11

Mayer 3

Smith Research Bldg. Floor 12

Mayer 3			<u>j</u> Si	mith Research Bldg. Floor 12	
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	F RESEARCH FACILITY	' (Attach adiditional sheets if ne	cessary or use APHIS FORM 7023A.) '	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs	12	0	156	0	156
7. Hamsters					<b>-</b>
8. Rabbits					
9. Non-human Primates					
10. Sheep					
11. Piqs					
12. Other Farm Animals					
13. Other Animals					
Tree Shrews	2	0	2	0	2
ASSURANCE STATEMENTS					

#### ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2). Each principal investigator has considered alternatives to painful procedures

te C. Gustin

- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

### CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL. (Chief Executive Officer or Legally Responsible Institutional Official)

(Chief Executive Officer or Legally Responsible Institutional Official)

Licertify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

Faye C. Austin, Ph.D. Director for Research

APHIS FORM 7023 (AUG 91)

utsir-D⊙A AN

1. REGISTRATION NO.

FORM APPROVED OMB NO 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

UNITED STATES DEPARTMENT OF AGRICULTURE

ANIMAL AND PLANT HEALTH INSPECTION SERVICE

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA include Zip Code)

14-R-0004, Cust Id 101
ALAN PLATT
PINE ACRES RABBITRY/FARM
299 E. MAIN STREET
NORTON, MA 02766

REPORTING FACILITY	(List all locations where	animals were	housed or use	ed in actual re	search, testin	g, teachii
sheets if necessary.)						

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مسد بعطر

FACILITY	LOCATI	ONS (Si	les)	
				_

1. 4 - Walle

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO.  OF ANIMALS  (Cols. C +  D + E)
4. Dogs	18	103	14	_	117
5. Cats					
6. Guinea Pigs	15	4			4
7. Hamsters				-	
8. Rabbits	97	276			276
9. Non-human Primates					
10. Sheep	-	//			11
11, Pigs	47	516		-	5/6
12. Other Farm Animals					
cticken's	255	1100			1100
13. Other Animals					
approssing		41			41
·····			***************************************		1

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquitizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2). Each principal investigator has considered alternatives to painful procedures
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

(Chief Executive Officer or l	UARTES RESEARCH FACILITY OFFICIAL Legally Responsible Institutional Official) e, correct, and complete (7 USC Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
alon Platt	ALAN PLATT OWNER	10.10.00

APHIS FORM 7023 (AUG 91)

additional information

Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

(TYPE OR PRINT)

1. REGISTRATION NO. 14-R-0010

FORM APPROVED OMB NO 0579-0036

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Codel The Schepens Eye Research Institute **ANNUAL REPORT OF RESEARCH FACILITY** 

20 Staniford Street

Boston, MA 02114 Status: Active

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary )

#### FACILITY LOCATIONS (Siles)

Main Research Building, 20 Staniford

A.  Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analyesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0.	0
6. Guinea Pigs	0	26	0	0	26
7. Hamsters	0	0	0	0	0
8. Rabbits	2	31	229	0	260
9. Non-human Primates	0	0	3	0	3
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals	0	00	0	0	_0
13. Other Animals	0	0	0	0	0

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility
- 2). Each principal investigator has considered alternatives to painful procedures
- 3). This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL. (Chief Executive Officer or Legally Responsible Institutional Official) Lectify that the above is true, correct, and complete (7 U.S.C. Section 2143)					
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED			
(0° 000) (100°	Anthony R. Kalica, PhD				
They aller	Director, Research Administration	11/22/00			

**APHIS FORM 7023** (AUG 91)

1. REGISTRATION NO.

FORM APPROVED OMB NO 0579-0036

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ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

2. HEADQUARTERS F

include Zip Code) 14-R-0013, Cust ld 99

MICHAEL F COLLINS, M.D.

ST. ELIZABETH'S MEDICAL CENTER OF BOSTON

736 CAMBRIDGE STREET

BOSTON, MA 02135

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS (Sites)

Center for Biomedical Research Building 720 Cambridge St., Boston, MA 02135

Pine Acres Rabbitry/Farm 299 E. Main St., Norton, MA 02766

B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	TOTAL NO OF ANIMALS  (Cols. C + D + E)
0	0	0	0	0
0	0	0	0	0
0	0	33	0	33
0	0	0	0	0
2	0	342	0	344
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
8	0	1,972	0	1,980
400	0	2,374	0	2,774
	bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.  O  O  O  O  O  O  O  O  O  O  O  O  O	animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.  O O O O O O O O O O O O O O O O O O O	animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.  Name of the description of held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.  O O O O O O O O O O O O O O O O O O O

1) Professionally acceptable standards governing the care, treatment, and use of animals, including approxiate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

2) Each principal investigator has considered alternatives to painful procedures.

3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.

4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

President

Michael F. Collins, M.D.

DATE SIGNED

APHIS FORM 7023 (AUG 91)

See reverse size for additional information 6180 DCA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 14-R-0016

FORM APPROVED OMB NO 0579-0036

All redactions on this page are pursuant to (b)(6) & (b)(7)(c).

#### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address as include Zip Code)
14-R-0016, Cust Id 110

L C F FOUNDATION, INC.

41 MALL ROAD BURLINGTON, MA 01805

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, an actual research, testing, teaching, and the control of these purposes. Attach adultional sheets if necessary.)

FACILITY LOCATIONS (Sites)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which feaching, experiments, research, surgery or fests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the feaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs	n/a				n/a
5. Cats	n/a				n/a
6. Guinea Pigs			12		12
7. Hamsters	n/a				n/a
8. Rabbits			20		20
9. Non-human Primates	n/a				n/a
10. Sheep	n/a	_			n/a
11. Pigs			6		6
12. Other Farm Animals					
Goats			10		10
13. Other Animals	n/a				n/a
	-				

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)    Certify that the above is true, correct, and complete (7 U.S.C. Section 2143)					
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED			
	David M. Barrett, M.D.				
tand M. Daniel	Chief Executive Officer	Inhilasi			

I Chairman, Board of Governors

APHIS FORM 7023 (AUG 91)

ASSURANCE STATEMENTS

All redactions on this page are pursuant to (b)(6) & (b)(7)(c).

# ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

1. REGISTRATION NO.

ON

FORM APPROVED ( )

ith USDA,

14-R-0017, Cust id 112

2. HEADQUARTERS RESEARCH

BOSTON UNIVERSITY 5 CUMMINGTON STREET BOSTON, MA 02215

Lab. Animal Care Facility

Biology

Biomedical Engineering

Psychology,

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS FORM 7023A)

REPORT OF ANIMALS USED BY O		RESEARCH FACILITY	(Attach adiditional sheets if ne	ocessary or use APHIS FORM 7023A.)	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, lesting, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMAI  (Cols. C D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters	8		20		20
8. Rabbits			2		2
9. Non-human Primates					
10. Sheep					
11. Piqs					
12. Other Farm Animals					
13. Other Animals					
ferret	6		16		16
gerbils	25		134		134
ASSURANCE STATEMENTS					

### ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2). Each principal investigator has considered alternatives to painful procedures
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)    Certify that the above is true, correct, and complete (7 U.S.C. Section 2143)				
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED		
adenti Puches 14/100	Dennis Berkey, Provost	12/1/00		

APHIS FORM 7023 (AUG 91)

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

1. REGISTRATION NO.

FORM APPROVED OMB NO 0579-0036

2. HEADQUARTERS

---- FACILITY (Name and Address, as registered with USDA include Zip Code) 14-R-0018, Cust ld 114

THOMAS B DUFF

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

OFFICE OF SPONSORED PROGRAMS 77 MASSACHUSETTS AVENUE

CAMBRIDGE, MA 02139

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or necessary testing. sheets if necessary.)

litional

#### **FACILITY LOCATIONS (Sites)**

Buildings 56,68, E17/18, E25

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in leaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs		0 .	0		0
5. Cats		0	25		25
6. Guinea Pigs		17	0		17
7. Hamsters		0	82		82
8. Rabbits		46	307		353
9. Non-human Primates		10	40		50
10. Sheep		0	13		13
11. Pigs		0	3		3
12. Other Farm Animals					
Chicken		0	284		284
13. Other Animals					
Ferrets		0	46		46
Mouse Rat		7,368 295	53;048 1;890		60,416 2,185
Frogs		16	2,593		2,609

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, feaching, festing, surgery, or experimentation were followed by this research facility
- 2) Each principal investigator has considered alternatives to painful procedures
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of anunal care and use

#### CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

DATE SIGNED

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

Thomas B. Duff

Associate Director

Office of Sponsored Programs

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

(AUG 91)

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

 REGISTRATION NO 14-R-0019

107

FORM APPROVED OMB NO. 0579-0038

 HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with the USDA, include Sip Code)

Harvard Medical School Ctr. for Animal Resources & Comparative Medicine 665 Huntington Avenue Boston, MA 02115 Status: Active

,, 3 t 20°t

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

#### **FACILITY LOCATIONS (Sites)**

See attached.

See attached.

A.  Animals Covered By The Animal Welfare Regulations  12. &/OR 13. Other (List by Species)	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching research, experiments or tests were conducted involving no pain, distress, or use of pain relieving drugs.	D. Numbers of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report.)	TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	61	0	61
5. Cats	0	0	57	0	57
6. Guinea Pigs	0	1	0	0	1
7. Hamsters	0	103	235	0	338
8. Rabbits	6	42	514	0	556
9. Non-human Primates	1435	31	653	0	684
10. Sheep	0	0	156	0	156
11. Pigs	0	0	587	0	587
12. Other Farm Animals					
Goats	0	0	1	0	1
13. Other Animals					
-etrickens	0	451	0	0	451
Ferrets	0	0	26	0	26
-Frogs	5	0	271	0	271
Gerbils	0	40	0	0	40
Mice (deer)	0	530	0	0	530

- 1. Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2. Each principal investigator has considered alternatives to painful procedures.

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- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4. The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)
I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL

DATE SIGNED

Paul Exec

Paul F. Levy Executive Dean for Administration

Harvard Medical School

11/29/00

14-R-0019

FORM APPROVED OMB NO 0579-0036

CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with the USDA, include Sip Code)

Harvard Medical School Ctr. for Animal Resources & Comparative Medicine 665 Huntington Avenue Boston, MA 02115 Status: Active

REPORT OF ANIMALS USE	D BY OR UNDER CO	NTROL OF RESEAR	CH FACILITY (Attach additional	sheets if necessary or use APHIS FORM 7023A.)	
A. Animals Covered By The Animal Welfare Regulations  12. &/OR 13. Other (List by Species)	B. Number of animals being bred, conditioned, or held for use in teaching, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching research, experiments or tests were conducted involving no pain, distress, or use of pain relieving drugs.	D. Numbers of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquillzing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report.)	TOTAL NO. OF ANIMALS (Cols. C + D + E)
13. Other continued			:		90 g
Birds (wild caught)	0	15	0	0	15
Degus	0	0	31	0	31
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		30.0			
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- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2. Each principal investigator has considered alternatives to painful procedures.
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected. 3
- The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use

(Chief Executive Officer of	QUARTERS RESEARCH FACILITY OFFICIAL or Legally Responsible Institutional Official), correct, and complete (7 U.S.C. Section 2143).	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL	D/

1///

**ASSURANCE STATEMENTS** 

Paul F. Levy
Executive Dean for Administration
Harvard Medical School

DATE SIGNED 11/29/00

### **FACILITY SITES LISTING**

Licensee/Registrant Name:

Harvard Medical School

Center for Animal Resources & Comparative Medicine

License/Registration Number:

1

Please list below all sites that house animals under the above registration number. Be sure to include all requested information. Do not leave any spaces blank. If lines do not apply, please mark it N/A. If you have more than three (3) sites, please copy this form as many times as needed before filling in the sites.

Site No.:

Name/Department:

Center for Animal Resources

& Comparative Medicine (ARCM)

Address:

Boston MA 02115

(a) Building(s): ARCM/Central - HSPH/Bldgs. 1&II

665 Huntington Avenue

Floor/Room:

Contact Person:

Ground and Basement Levels

Phone Number:

Building(s): (b)

ARCM/Seeley G. Mudd Building and Harvard

250 Longwood Avenue

Floor/Room:

Contact Person: Phone Number: Contact Person:

Phone Number:

Center for Minimally Invasive Surgery

Lower Level

Building(s): (c)

ARCM/Warren Alpert Building

200 Longwood Avenue

Floor/Room:

Contact Person:

Lower Level

Phone Number:

(d) Building: ARCM/Harvard Institutes of Medicine

77 Avenue Louis Pasteur

Floor/Room:

Contact Person: Phone Number:

Lower Level

Site No.:

Name/Department: 17

New England Regional Primate Research Center

Address:

One Pine Hill Drive Southboro, MA 01772

Building(s):

Main Building and Three Out Buildings

Floor/Room:

Basement and Ground Floors

Contact Person: Phone Number:

#### **FACILITY SITES LISTING**

Licensee/Registrant Name:

Harvard Medical School

Center for Animal Resources & Comparative Medicine

License/Registration Number:

14-R-019

Please list below all sites that house animals under the above registration number. Be sure to include all requested information. Do not leave any spaces blank. If lines do not apply, please mark it N/A. If you have more than three (3) sites, please copy this form as many times as needed before filling in the sites.

Site No.:

18

Name/Department:

USDA Registration No.:

ddrocc

Address: Building:

Floor/Room:

Contact Person: Phone Number:

it: ARCM/Thorn (satellite)

14-R-092

20 Shattuck Street, Boston MA 02115

Thorn Building

15th Floor

Site No.:

21

Name/Department:

Pine Acres Rabbitry/Farm (satellite - swine/dog housing

only)

USDA Registration No:

. . . .

Address:

Building: Floor/Room:

Contact Person: Phone Number:

14-B-52

299 East Main Street, Norton MA 02766

Main Building

First Floor

### All redactions on this page are pursuant to (b)(6) & (b)(7)(c).

This report is required by law (7 USC 2143). Failure to report according to the regulations

See attached form for additional information

CUSTOMER NUMBER: 117

FORM APPROVED

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

DEC 12 CULL

#### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

1. CERTIFICATE NUMBER: 14-R-0020

OMB NO. 0579-0036

Children'S Hospital, The John Enders Pediatric Research 300 Longwood Avenue , Enders 146, ATTN: Boston, MA 02115

Telephone: (617) -355-7058 355-7386



3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

5. Cats	0	^		reasons such drugs were not used must be attached to	
		0	25	. 0	25
C. C. Jaco Dies	0	0	1	0	1
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	4	129	0	133
9. Non-human Primate	0	0	0	0	0
0. Sheep (	0	0	71	0	71
1. Pigs	0	0	219	0	219
2. Other Farm Animals	0	0	0	0	0
3. Other Animals	N/A	N/A	N/A	N/A	N/A

#### ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and

CERTIFICATIO	ON BY HEADQL	JARTERS RESE	ARCH FACILI	TY OFFICIAL
( Chief Execu	itive Officer or Le	egally Responsib	le Institutional	Official)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print

William New, Vice President of Research

Affairs

DATE SIGNED

APHIS FORM 7023

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.

(AUG 91)

#### All redactions on this page are pursuant to (b)(6) & (b)(7)(c).

result in an order to cease and desist and to be subject to penalties as provided for in Section 2150

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teach.

additional internation

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA

Granden , my rts shock GIBU DOA AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.

FORM APPROVED OMB NO/0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) 14-R-0021, Cust ld 118

NORTHEASTERN UNIVERSITY 360 HUNTINGTON AVENUE 423 LAKE HALL

423 LAKE HALL

BOSTON, MA 02115

h additional

**FACILITY LOCATIONS (Sites)** 

Mugar Life Sciences Building

Nightindale Hall

Richards Hall

sheets if necessary.)

			(Altach adiditional sheets if ne	cessary or use APHIS FORM 7023A)	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters		396	102		498
8. Rabbits			65		65
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
	]				

#### ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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(Chief Executive Officer or	QUARTES RESEARCH FACILITY OFFICIAL Legally Responsible Institutional Official) ne, correct, and complete (7 U.S.C. Section 2143)	
SIGNATURE OF C.E.O/OR INSTITUTIONAL OFFICIAL  M122	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)  (-7) H() Sc. H MALLER  DIR INST. COMPLIANCE DIVISION	DATE SIGNED

APHIS FORM 7023 (AUG 91)

. . .

1. REGISTRATION NO. 14-R-0022

OMB NO 0579 0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA include Zip Code

14-R-0022, Cust ld 119 Elayn Byron

MASSACHUSETTS EYE & EAR INFIRMARY

243 CHARLES STREET BOSTON, MA 02114

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teach..., sheets if necessary)

ditional

#### **FACILITY LOCATIONS (Siles)**

Massachusetts Eye & Ear Infirmary

A.  Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs			0		0
5. Cats			38		38
6. Guinea Pigs			170		170
7. Hamsters			0		0
8. Rabbits			231		231
9. Non-human Primates			26		26
10. Sheep			0		0
11. Pigs			3		3
12. Other Farm Animals					
13. Other Animals					
Chinchillas			10		10
Frogs			36		36

#### ASSURANCE STATEMENTS

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## CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

Elayn Byron, Director of Research

Administration Institutional Official

DATE SIGNED

APHIS FORM 7023

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

(AUG 91)

All redactions on this page are pursuant to (b)(6) & (b)(7)(c).

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

1. REGISTRATION NO

FORM APPROVED

OMB NO 0579-0036

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with HSDA include Zip Code)

14-R-0025. Cust ld 121

HOLYOKE COMMUNITY COLLEGE **VETERINARY & ANIMAL SCIENCE** 303 HOMESTEAD AVENUE HOLYOKE, MA 01040

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or ex, sheets if necessary.)

**FACILITY LOCATIONS (Sites)** 

Holyoke Community College Kennel & Mrb-Building (formerly named D-Building)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO.  OF ANIMAL:  (Cols. C +  D + E)
4. Dogs		3	4		7
5. Cats		7	3		10
6. Guinea Pigs		2			2
7. Hamsters		2			2
8. Rabbits		3	2		5
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
Gerbils		2			2
					1

- Professionally acceptable standards governing the care, freatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility
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C	RTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIA	ıL.
	Chief Executive Officer or Legally Responsible Institutional Official)	

Learnity that the above is true, correct, and complete (7 U.S.C. Section 2143)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

David M. Bartley, President

10-27-00

APHIS FORM 7023 (AUG 91)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

#### All redactions on this page are pursuant to (b)(6) & (b)(7)(c).

result in an order to cease and desist and to be subject to penalties as provided for in Section 2150

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teach

additional information

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UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO

FORM APPROVED OMB NO 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

14-R-0027

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA include Zip Code)

4-R-0027 Cust ld 123

AVANT IMMUNOTHERAPEUTICS, INC. 119 FOURTH AVENUE

NEEDHAM, MA 02194

つつに Titional DEC

**FACILITY LOCATIONS (Sites)** 

AVE. NEEDHAM MA

sheets if necessary.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which leaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO.  OF ANIMALS  (Cols. C +  D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits		95	23		118
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2). Each principal investigator has considered alternatives to painful procedures
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of annual care and use

(Chief Executive (	Y HEADQUARTES RESEARCH FACILITY OFFICIAL Officer or Legally Responsible Institutional Official) a above is true, correct, and complete (7 U.S.C. Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
Una S. Ryan	UNA S. RYAN, PA.D. PRESIDENT AND CEO	11/30/00

APHIS FORM 7023 (AUG 91)

1. REGISTRATION NO.

FORM APPROVED OMB NO 0579-0036

2. HEADQUAR

..... as the state and Address as registered with USDA include Zip : 14-R-0029, Cust ld 125

DR JERRY R SCHUBEL **NEW ENGLAND AQUARIUM** 177 MILK STREET

**BOSTON, MA 02110** 

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or new routinesse purposes and additional sheets if necessary.)

#### FACILITY LOCATIONS (Sites)

Marine Mammal Department-Discovery

Animal Care Center - Main Building

	·				
	B. Number of	RESEARCH FACILITY C Number of		cessary or use APHIS FORM 7023A.) *  E. Number of animals upon which teaching.	T
Animals Covered By The Animal Welfare Regulations	b. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research,	TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs			***************************************		
7. Hamsters			***************************************		
8. Rabbits					
9. Non-human Primates					
10. Sheep			<u> </u>		
11. Piqs					ļ <u></u>
12. Other Farm Animals					
13. Other Animals					
California sea- lions	4	2	0	0	2
harbor seals	7	1	0	0	1
California sea- otters	2	2	0	0	2
ASSURANCE STATEMENTS					

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility
- 2) Each principal investigator has considered alternatives to painful procedures
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use

(Chief Executive Officer or	UARTES RESEARCH FACILITY OFFICIAL Legally Responsible Institutional Official) e, correct, and complete (7 USC Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
Jen R School	Dr. Jerry R. Schubel	9/26/00

APHIS FORM 7023 (AUG 91)

0180 DO4 AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 14R-0030

FORM APPROVED

OMB NO 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADQUARTERS P ınclude Zip Code) 14-R-0030, Cust ld 126

> ROBERTA C NARY **BRANDEIS UNIVERSITY**

**GRANT, CONTRACT & PATENT ADMIN** 

P.O. BOX 9110 WALTHAM, MA 02254

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary)

Foster Biomedical Research Laboratories - Brandeis University FACILITY LOCATIONS (Sites)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach adiditional sheets if necessary or use APHIS FORM 7023A) B. Number of Number of animals upon which teaching, C Number of D. Number of animals upon experiments, research, surgery or tests were animals being animals upon which experiments, bred. conducted involving accompanying pain or distress which teaching, **Animals Covered** teaching, research, to the animals and for which the use of appropriate conditioned, or By The Animal research, TOTAL NO. surgery, or tests were anesthetic, analgesic, or tranquilizing drugs would held for use in Welfare Regulations experiments, or conducted involving OF ANIMALS teaching, testing. tests were have adversely affected the procedures, results, or accompanying pain or distress to the animals interpretation of the teaching, research, experiments. conducted experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these (Cols. C + D + E) research, or involving no and for which appropriate surgery but not pain, distress, or anesthetic, analgesic, or animals and the reasons such drugs were not used yet used for such use of paintranquilizing drugs were purposes. must be attached to this report). relieving drugs 0 Dogs

17 17 8 Rabbits 0 Non-human Primates 0 10. Sheep 11. Pigs Λ

12. Other Farm Animals 0 0 13. Other Animals 192 192 Gerbils

ASSURANCE STATEMENTS

Cats

Guinea Pigs

Hamsters

Professionally acceptable standards governing the care, freatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility

2) Each principal investigator has considered alternatives to painful procedures

aleuta ( hou

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3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)
Licertify that the above is true, correct, and complete (7.U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

82

Roberta C. Nary, CRA

Director

Office of Sponsored Programs

DATE SIGNED

0

0

82

APHIS FORM 7023 (AUG 91)

0180-DOA AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.

FORM APPROVED

OMB NO 0579-0036 as constared with USDA.

2. HEADQUARTERS

include Zip Code, 14-R-0031, Cust ld 127 LANCE GORDON, PH.D.

ORAVAX, INC. 38 SIDNEY STREET CAMBRIDGE, MA 02139 2/2<sup>1</sup>

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Actual solutional

**FACILITY LOCATIONS (Sites)** 

CraVax, Inc., 38 Sidney St.,

Cambridge, MA 02139

REPORT OF ANIMALS USED BY	OR UNDER CONTROL OF	RESEARCH FACILITY	' (Attach adiditional sheets if ne	ecessary or use APHIS FORM 7023A.)	
A Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of paim-relieving drugs.	D. Number of animals upon which experiments, leaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamslers			<u> </u>		
8. Rabbits					
9. Non-human Primates					
10. Sheep					-
11. Pigs					ļ
12. Other Farm Animals					
13. Other Animals			:		
Gerbils			113		113
ASSURANCE STATEMENTS	•				

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2). Each principal investigator has considered alternatives to painful procedures

ne Gordon

- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the This facility is adhering to the standards and regulations under the Act, and it has required in a expension to the standards and regulations are specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC) A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFIC	IAL
(Chief Executive Officer or Legally Responsible Institutional Official)	)

Licertify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

Lance K. Gordon, PhD Director, North America DATE SIGNED

0/23/00

**APHIS FORM 7023** (AUG 91)

o ferniores, esq 0130 DOA AN

0130 DOA AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.

FORM APPROVED
OMB NO 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and include Zip Code)

JSDA.

14-R-0032, Cust id 514
ROBERT F BORIES, JR., FACHE
SHRINERS BURNS INSTITUTE
51 BLOSSOM STREET
BOSTON, MA 02114

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching sheets if necessary)

see attached

.... mese purposes. Attach additional

**FACILITY LOCATIONS (Siles)** 

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits			106		106
9. Non-human Primates					
10. Sheep			10		10
11. Pigs					
12. Other Farm Animals					
13. Other Animals					

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility:
- 2) Each principal investigator has considered alternatives to painful procedures
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use

(Chief Executive Offi	EADQUARTES RESEARCH FACILITY OFFICIAL icer or Legally Responsible Institutional Official) ove is true, correct, and complete (7 U.S.C. Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
Robert 7. Boues Is	Robert F. Bories, Jr. FACHE Administrrator	11-29-00

APHIS FORM 7023 (AUG 91)

this report is required by  $la\mathbf{w}(x,y)$  of c of c matrix, or report a consists of the requirement can result in an order to phase and desired and to be subject to penalties as provided for in Section 2150.

additional information

0180 004 AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1 REGISTRATION NO.

FORM APPROVED OMB NO 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) 2. HEADQUARTE/ include Zip Cot 14-R-0036, Cust ld 515

515 YSOA

UNIVERSITY OF MASSACHUSETTS AT AMHERST ANIMAL CARE OFFICE, GRAD. SCH. 512 GOODELL BUILDING AMHERST, MA 01003

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets it necessary.)

#### FACILITY LOCATIONS (Sites)

see attached

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO. OF ANIMALS  (Cols. C + D + E)
4. Dogs	Ø	Ø	Ø	Ø	Ø
5. Cats	Ø	Ø	Ø	Ø	Ø
6. Guinea Pigs	Ø	Ø	Ø	Ø	Ø
7. Hamsters, syrian	117	116	1492	Ø	1608
8. Rabbits	6	16	76	Ø	92
9. Non-human Primates	Ø	10	ø	Ø	10
10. Sheep	Ø	Ø	Ø	Ø	Ø
11. Pigs	Ø	Ø	53	Ø	53
12. Other Farm Animals					
Cattle	Ø	Ø	2	Ø	2
13. Other Animals					
Hamsters, siberian	383	7	43	Ø	50
Gerbils	15	Ø	69	Ø	69
Prairie voles	270	390	430	Ø	820

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered atternatives to painful procedures
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

## CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

David K. Scott, Ph.D. Chancellor, UMass-Amherst

11/29/00

APHIS FORM 7023 (AUG 91)

CONTINUATION SHEET FOR ANNUAL REPORT

OF RESEARCH FACILITY

(TYPE OR PRINT)

L REGISTRATION NO

14-R-0036

FORM ARRESTANT OMB NO 0575 00 16

2 HEADOUARTERS RESEARCH FACILITY (Name and Address as registered with High include Zip Code)

University of Massachusetts at Amherst Animal Care Office, 512 Goodell Bldg. Amherst, MA 01003

			Status:	Active	
REPORT OF ANIMALS USED BY	B Number of	C Number of	D. Number of animals upon	ecassary or use this form )  E. Number of animals upon which teaching, experiments, research, surgery or tests were	F
Animals Covered By The Animal Wellare Regulations  12 8/OR 13 Other (USI by species)	animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes	animals upon which leaching, research, experiments, or lests were conducted involving no pain, distress, or use of pain, relieving drugs.	which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranguilizing drugs were used.	conducted involving accumpanying pain or distress to the animals and for which the use of appropriate anesthetic, analysis, or tranquitizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research.	TOTAL NO OF ANIMA  (Cols. C D + E)
Meadow voles	Ø	46	Ø	Ø	46
Redbacked voles	Ø	197	Ø	Ø	197
Deer mice	Ø	370	Ø	Ø	370
N. Short tailed s	hrew Ø	29	Ø	Ø	29
E. chipmunk	Ø	10	Ø	Ø	10
Masked shrew	Ø	43	Ø	Ø	43
Red squirrel	Ø	1	Ø	Ø	1
Star nosed mole	Ø	1	Ø	Ø	1
Shorttailed wease	Ø	3	Ø	Ø	3
Sm. Indian Mongooses	Ø	3	Ø	Ø	3
Sm Indian civets	ø	3	3	Ø	6
Common palm civets	Ø	3	4	Ø	7
Fishing cats	ø	ø	2	Ø	2
Darwin's fox	Ø	Ø	15	Ø	15
Grey fox	Ø		Ø	Ø	11
Culpeo fox	Ø	2	Ø	Ø	2
Kod-Kod	Ø	Ø	3	Ø	3
(South American wild-cat					

#### ASSURANCE STATEMENTS

species)

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approximate use of aniesthetic analgesic and tranquilizing drugs, princip, dirring and following actual research, feathing, festing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered atternatives to painful procedures
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report addition to identifying the IACUC approved exceptions, this summary includes a tirief explanation of the exceptions, inswell as the spinies and mimber of animals after led
- 4) The attenting veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary dare and to oversee the adequacy of other aspects animal care and ose

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)
Feerally that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF CEO OF INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

David K. Scott, Ph.D.

Chancellor, UMass-Amherst

DATE SIGNE

11/29/00

0180-DOA AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.

FORM APPROVED \
OMB NO 0579-0036

All redactions on this page are pursuant to (b)(6) & (b)(7)(c).

# ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADQUARTE 14-R-0038, Cust ld 132 include Zip Col

CATHERINE B. HILL

WILLIAMS COLLEGE P.O. BOX 666 WILLIAMSTOWN, MA 01267

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

MORLEY SCIENCE LABORATORIES, 31 MORLEY DRIVE, WILLIAMSTOWN, MA

FACILITY LOCATIONS (Siles)

Α.	B. Number of	C Number of	<del></del>	cessary or use APHIS FORM 7023A.) *  E. Number of animals upon which teaching,	
Animals Covered By The Animal Wellare Regulations	b. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research,	F.  TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs					0
5. Cats					0
6. Guinea Pigs					0
7. Hamsters					0
8. Rabbits					0
9. Non-human Primates					0
10. Sheep					0
11. Pigs					0
12. Other Farm Animals					0
					0
13. Other Animals					0
					0
					0
					0

- 1) Professionally acceptable standards governing the care, freatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)
Lightly that the above is true correct, and competent (71) C.C. Contract 21 (2)

Licertify that the above is true, correct, and complete (7 U.S.C. Section 2143)

DATE SIGNED

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

/ /

CATHERINE B. HILL, PROVOST

11/30/2000

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UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.

FORM APPROVED (

ath USDA

#### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADOUAR include Zip (
FRANKLIN M LOEW BECKER COLLEGE 3 PAXTON STREET LEICESTER, MA 01524

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCA	TIONS (Sites)
Becker College	
Lenfest Animal Health Building	
955 Main Street	
Leicester, Massachusetts 01524	

A.	B. Number of	C Number of		cessary or use APHIS FORM 7023A) *  E. Number of animals upon which teaching,	
Animals Covered By The Animal Welfare Regulations	animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or lests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research,	F.  TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs		3	17		20
5. Cats		1	8		9
6. Guinea Pigs		5	1		6
7. Hamsters		0	0		0
8. Rabbits		8	0		8
9. Non-human Primates		0	0		0
10. Sheep		0	0		0
11. Pigs		0	0		0
12. Other Farm Animals		0	0		0
13. Other Animals		0	0		0

#### ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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(Chief Executive Officer or	QUARTES RESEARCH FACILITY OFFICIAL Legally Responsible Institutional Official) ne, correct, and complete (7 USC Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
iti.	Franklin M. Loew, D.V.M, Ph.D.	11/./
Some voter	President	116/00

APHIS FORM 7023

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

(AUG 91)

0180 DOA AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.

FORM APPROVED I OMB NO 0579-0036

red with USDA

#### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADC 14-R-0042, Cust Id 122 include GEORGE YERGANIAN, PH.D.

CYTOGEN RESEARCH & DEVELOPMENT, INC.

89 BELLEVUE HILL ROAD WEST ROXBURY, MA 02132

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

#### **FACILITY LOCATIONS (Sites)**

### Foster Animal Facility

Brandeis University, Waltham, MA

REPORT OF ANIMAL SUISED BY		· · · · · · · · · · · · · · · · · · ·		ccessary or use APHIS FORM 7023A.)	
A.  Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which leaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO. OF ANIMALS  (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters	160	24	10	0	34
8. Rabbits					
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
M**					
13. Other Animals					
ASSURANCE STATEMENTS					

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility
- 2) Each principal investigator has considered alternatives to painful procedures

George Yliepen

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)

Learnily that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) George Yerganian, Ph.D.

Director of Research

DATE SIGNED

11/8/00

APHIS FORM 7023 (AUG 91)

1. REGISTRATION NO.

FORM APPROVED 1 ...

OMB NO 0579-0036

nth USDA,

84

#### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Pharmacology Laboratory

2. HEADQUAR 14-R-0047, Cust ld 455 include Zip+ JOHN D IULIUCCI, PH.D. ARIAD PHARMACEUTICALS, INC. 26 LANDSDOWNE STREET CAMBRIDGE, MA 02139

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.) **FACILITY LOCATIONS (Sites)** 

REPORT OF ANIMALS USED BY C	OR UNDER CONTROL OF	F RESEARCH FACILITY	l (Altach adiditional sheets if ne	cessary or use APHIS FORM 7023A)	
A. Animals Covered By The Animal Welfare Regulations	B Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which feaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or fests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs					
5. Cats					

84

**ASSURANCE STATEMENTS** 

Guinea Pigs Hamsters

Non-human Primates

12. Other Farm Animals

13. Other Animals

Rabbits

10. Sheep 11. Pigs

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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(Chief Executive O	HEADQUARTES RESEARCH FACILITY OFFICIAL flicer or Legally Responsible Institutional Official) above is true, correct, and complete (7 U.S.C. Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
John Falue	John Iuliucci, Ph.D. Senior Vice President, Drug Development	11/21/00

APHS FORM 7023 (AUG 91)

6130 004 AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. REGISTRATION NO.

FORM APPROVED

OMB NO 0575-0036

2. HEADQUARTEF 14-R-0050, Cust Id 135 include Zip Cod STEPHEN ERICKSON

NOV -7 2000

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

**BOSTON COLLEGE** OFFICE OF RESEARCH ADMIN.

MCGUINN HALL 600 CHESTNUT HILL, MA 02167

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS (Siles)

Higgins Hall

McGuinn Hall

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	TOTAL NO. OF ANIMALS  (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits	0	3	0	0	3
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
					1

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of aniesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)
I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E. OR INSTITUTIONAL DEELCIAL

APHIS FORM

(AUG 91)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

Stephen Erickson Director, Office of Research Admin.

additional intermation

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO

FORM APPROVED

CHSS-DOA ÂN

OMB NO 0579-0036

#### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADO 14-R-0052 include

red with USDA

BIOGEN, INC. DEVELOPMENT OPERATIONS 12 CAMBRIDGE CENTER CAMBRIDGE, MA 02142

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

**FACILITY LOCATIONS (Sites)** 

Site I: Research Department

Ruilding Bio VI

				cessary or use APHIS FORM 7023A)	<del></del>
A.  Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or lests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters			5		5
8. Rabbits					
9. Non-human Primates					
10. Sheep					
11. Pigs			4.		
12. Other Farm Animals					
13. Other Animals					

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility
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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)

Learnify that the above is true, correct, and complete (7 U.S.C. Section 2143)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED 11 /20/00

Michael Gilman, Ph.D. Vice President, Research Department

**APHIS FORM 7023** (AUG 91)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

All redactions on this page are pursuant to (b)(6) & (b)(7)(c).

1. REGISTRATION NO.

include Zip

FORM APPROVED OMB NO. 0579-0036

with USDA,

#### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

P.O. BOX 58 58 S. ROYALSTON ROAD ROYALSTON, MA 01368

2. HEADQUAF 14-R-0054, Cust ld 471

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.) **FACILITY LOCATIONS (Sites)** 

5.7c I - IBulding (2 Rooms) 585-Royalstor Rd, Royalston Mar 01368 REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach adiditional sheets if necessary or use APHIS FORM 7023A) E. Number of animals upon which teaching, B. Number of C Number of D. Number of animals upon animals being experiments, research, surgery or tests were animals upon which experiments, **Animals Covered** bred, which feaching, conducted involving accompanying pain or distress teaching, research, conditioned, or to the animals and for which the use of appropriate By The Animal research, TOTAL NO surgery, or tests were conducted involving held for use in anesthetic, analgesic, or tranquilizing drugs would Welfare Regulations experiments, or OF ANIMALS have adversely affected the procedures, results, or interpretation of the teaching, research, teaching, lesting, lests were accompanying pain or experiments, conducted distress to the animals research, or experiments, surgery, or tests. (An explanation of (Cols. C + D + E) and for which appropriate on pnivlovni surgery but not yet used for such pain, distress, or the procedures producing pain or distress in these anesthetic, analgesic, or animals and the reasons such drugs were not used use of paintranquilizing drugs were must be attached to this report). purposes relieving drugs Dogs Cats Guinea Pigs Hamsters 205 8 Rabbits Non-human Primates 10. Sheep 11. Pigs Other Farm Animals 13. Other Animals

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility
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- The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL. (Chief Executive Officer or Legally Responsible Institutional Official)  Legally that the above is true, correct, and complete (7 U.S.C. Section 2143)					
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)				
Militar	Mark Dergon	President	12/6/00		

APHIS FORM 7023 (AUG 91)

ASSURANCE STATEMENTS

OMITED STATES SERVED THE ASSESSMENT OF AGRICULTURE!
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

14-R-0056, CustId475

Mohio Historia Jan

2. HEADQUARTERS RESEARCH FACILITY traine and Authors, as registered with JSDA include Zip Codel

#### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) NOV 17

2000 EPIX Medical, Inc. 71 Rogers Street Cambridge, MA 02142

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS (Siles)

EPIX Medical - Animal Facility &

Pharmacolov Labs - 65 Rogers Street

Pharmacolgy				cessury or use APHIS FORM 7023A.)	<del></del>
A.  Animals Covered By The Animal Welfare Regulations	B Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which leaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which leaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	31	0	118	0.	118
7. Hamsters	0	0	0	0	0
8. Rabbits	2	0	28	0	28
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0.	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals	0	0	0	0	0
13. Other Animals	0	0	0	0	0
ASSURANCE STATEMENTS					

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)    Certify that the above is true, correct, and complete (7 U.S.C. Section 2143)					
SIGNATURE OF C.E.O. OR INSTITUTIONAL DEFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type of Print)	DATE SIGNED			
) ) )	James E. Smith Executive Vice President				

APHIS FORM 7023

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

(AUG 91)

11/15/00

Research and Development

Institutional Official

All redactions on this page are pursuant to (b)(6) & (b)(7)(c).

### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

**Ergo Science Development Corporation** 

14-R-0060, Cust ld 511 2. HEADQUAR

1. REGISTRATION NO.

include Zip

OVED 19-0036

ith USDA,

ERGO SCIENCE DEVELOPMENT CORPORATION

43 HIGH ST NORTH ANDOVER, MA 01845

Status: Inactive

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purpose	. Attach additional
sheets if necessary.)	
FACILITY LOCATIONS (Sites)	

100 First Avenue, Cha	arlestown, Massa	chusetts 02129-	2051		
REPORT OF ANIMALS USED BY	OR UNDER CONTROL OF	RESEARCH FACILITY	(Attach adiditional sheets if ne	ecessary or use APHIS FORM 7023A.)	
A. Animals Covered By The Animal Wellare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	TOTAL NO. OF ANIMALS  (Cols. C + D + E)
4. Dogs					0
5. Cats					0
6. Guinea Pigs					0
7. Hamsters	We	closed t	he facility at	100 First Avenue,	0
8. Rabbits	Cha	arlestown	, Massachuse	etts in the summer	0
Non-human Primates	of	1999. V	Ve neither	held animals nor	0
10. Sheep	con	ducted re	search or exp	eriments on animals	0
11. Pigs	for	the fisca	l year Octob	er 1, 1999 through	0
12. Other Farm Animals	Sep	tember 30	0, 2000.		0
	1				
13. Other Animals					0
					0
					-0
					0

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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(Chief Executive Officer	DQUARTES RESEARCH FACILITY OFFICIAL or Legally Responsible Institutional Official) strue, correct, and complete (7 U S C Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
Cand hhr	President & CEO	11/16/10

**APHIS FORM 7023** (AUG 91)

ASSURANCE STATEMENTS

See reverse side for additional information

Interagency Report Control No. 0180-00A-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. REGISTRATION NO.

FORM APPROVED OMB NO 0579-0636

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

<u>14-R-</u>∩061 2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA. include Zip Code)

Smith College Clark Science Center Northampton, MA 01063

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional shoets if necessary.)

FACILITY LOCATIONS (Siles)

Sabin-Reed Hall, Clark Science Center

Animals Covered By The Animal Welfare Regulations	8. Number of animals being bred. Conditioned, or held for use in leaching, lesting, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which leaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which feaching, experiments, research, surgery or fests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the feaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be affached to this report).	F.  TOTAL NO OF ANIMAL  (Cols. C 4 D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters	32	378	6		384
8. Rabbits					
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals		:			
13. Other Animals					
Ferrets		2	23		25
Pine Voles	31	6			6
Prairie Voles	20	96			96

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility
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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL  (Chief Executive Officer or Legally Responsible Institutional Official)  Legally that the above is true, correct, and complete (7 U.S.C. Section 2143)				
NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED			
Charles P. Staelin Dean for Academic Development	11/20/00			
	Ticer or Legally Responsible Institutional () [ficial) bove is true, correct, and complete (7 USC Section 2143)  NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)  Charles P. Staelin			

**APHIS FORM 7023** (AUG 91)

I. REGISTRATION NO. 14-R-0061

FORM APPROVED OMB NO 0579-0036

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA include Zip Codel

## CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

Smith College Clark Science Center Northampton, NA 01063

REPORT OF ANIMALS USED BY OF	8 Number of	C Number of		E. Number of animals upon which teaching,	
Animals Covered By The Animal Welfare Regulations  12 &/OR 13 Other (Ust by species)	anitials being bred, conditioned, or held for use in feaching, festing, experiments, research, in surgery but not yet used for such purposes	animals upon which feaching, research, experiments, or lesis were conducted involving no pain, distress, or use of pain-relieving drugs	O Number of unimals upon which experiments feaching, research, surjery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate allesthetic, attalgesic, or tranquilizing drugs were used.	experiments, research, surgery or tests were conducted involving accumpanying pain or distress to the annuals and far which the use of appropriate anesthetic, analysis, or tranquitizing drugs would have adversely affected the procedures, results, or interpretation of the leaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be effected to this report).	FOTAL NO OF ANIMA
Meadow Voles	43	21			21
Deer Mice		281	6		287
White-footed Mice		103		·	103
•					
				,	
				·	

#### ASSURANCE STATEMENTS

- 1). Professionally acceptable standards governing the care, treatment, and use of animals, including approximate use of aniestness, anider aniquitizing drugs, prior to, during and following actual research, leaching, festing, surgery, or experimentation were followed by this research facility
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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)
the state of the should be

Ficertify that the above is true, correct, and complete (7 U.S.C. Section 2143) SIGNATURE OF CEO OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF CEO OR INSTITUTIONAL OFFICIAL IT THE OF PERSON

DATE SIGNED

Charles P. Staelin Dean for Academic Development

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

1. REGISTRATION NO.

14-R-0062, Cust ld 534 2. HEADOU! ROBERT W MC ALLISTER P.O. BOX 513 AMHERST, MA 01004

FORM APPROVED OMB NO 0579-0036

with USDA

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional

#### **FACILITY LOCATIONS (Sites)**

Research Rabbit Facility

Research Pig Facility

Rabbit Breeding Facility

A.	B. Number of	C Number of	D. Number of animals upon	cessary or use APHIS FORM 7023A)  E. Number of animats upon which teaching.	F.
Animals Covered By The Animal Welfare Regulations	animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research,	TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits	350		200		200
9. Non-human Primates					
10. Sheep					
11. Pigs		13			
12. Other Farm Animals					
13. Other Animals					

- 1) Professionally acceptable standards governing the care, freatment, and use of animals, including approriate use of anesthetic, analgesic, and franquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility
- 2) Each principal investigator has considered alternatives to painful procedures.

OF C.E.O. OR INSTITUTIONAL OF FICIAL

- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Annual Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

Robert W. McAllister Chief Executive Officer

SIGNATURE

6180 DOA AM

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

All redactions on this page are pursuant to (b)(6) & (b)(7)(c).

### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

14-R-0066, Cust ld 721

2. HEADO include

1. REGISTRATION NO.

EMBRYOTECH LABORATORIES, INC.

323 ANDOVER STREET
WILMINGTON, MA 01887

PPROVED 0579-0036

ed with USDA,

	<b>.</b>	
REPORTING FACILITY (List all locations where animals were housed or used in actual re-	search, testing, teaching, or experimentation, or held for these purpo	ses. Attach additional
sheets if necessary.)		

FACILITY LOCATIONS (Siles)

Same C	IS ABOU	e			
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adiditional sheets if ned	cessary or use APHIS FORM 7023A.)	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which feaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					_
7. Hamsters	90	543			543
8. Rabbits					
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
ASSURANCE STATEMENTS			•		

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animai care and use.		
(Chief Executive	Y HEADQUARTES RESEARCH FACILITY OFFICIAL Officer or Legally Responsible Institutional Official) se above is true, correct, and complete (7 USC Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
Sie V. Jana	BRIC U. DORMAN PRESIDENT	11080
APHIS FORM 7023 (Replaces VS FORM 18-23 (OCT 8	8) which is obsolute )	

APHIS FORM 702

nderagen , mayers. 0180-DOA AM

LINITED STATES DEPARTMENT OF AGRICULTURE ANIMAL ALID PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.

FORM APPROVED OMB NO 0579-0036

All redactions on this page are pursuant to (b)(6) & (b)(7)(c).

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADQUA include Zi

VSDA,

WORCESTER POLYTECHNIC INSTITUTE 100 INSTITUTE ROAD

WORCESTER, MA 01609

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

**FACILITY LOCATIONS (Sites)** 

WPI Animal Facility, SL 313-319

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO.  OF ANIMALS  (Cols. C +  D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits					
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquitizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility
- 2) Each principal investigator has considered alternatives to painful procedures
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)

Leertify that the above is true, correct, and complete (7 U.S.C. Section 2143)

DATE SIGNED

William W. Dengen

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) William W. Durgin, Assoc. Provost for Academic Affairs

APHIS FORM 7023 (AUG 91)

See attached form for additional information Interagency Report Cantro

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 14-R-0070

CUSTOMER NUMBER: 729

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Focal, Inc. Clinical & Regulatory Affairs 4 Maguire Road Lexington, MA 02173

Telephone: (781) -280-7800

3. REPORTING FACILITY ( List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

REPORT OF ANIMALS	USED BY OR UNDER	CONTROL OF RESEA	RCH FACILITY ( Attach addition	al sheets if necessary or use APHIS Form 7023A )	
A.  Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, a	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to	F.  TOTAL NUMBER OF ANIMALS  ( COLUMNS C + D + E )
4. Dogs		•			
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits	:		12		12
9. Non-human Primate					
10. Sheep					
11. Pigs					†
12. Other Farm Animals					
13. Other Animals	1				
					†

### ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.

The attending veterinarian for this research facility has appropriate authors	prity to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of an	imal care and
	ON BY HEADQUARTERS RESEARCH FACILITY OFFICIAL stive Officer or Legally Responsible Institutional Official )	
SIGNATURA OF C.E.O. OR INSTRUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print Robert J DePascua CEO/PRISIDENT	DATE SIGNED 12/6/00

APHIS FORM 7023

10.004m / 00.00 0180-004 AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. REGISTRATION NO.

FOOM \* PPROVED 1579-0036

All redactions on this page are pursuant to (b)(6) & (b)(7)(c).

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADOU. 14-R-0071, Cust ld 128 include 2

JOSLIN DIABETES CENTER INC. ONE JOSLIN PLACE **BOSTON, MA 02215** 

J. with USDA,

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

**FACILITY LOCATIONS (Sites)** 

Elliot P. Joslin Research Facility

REPORT OF ANIMALS USED BY C A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or fests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO.  OF ANIMALS  (Cols. C +  D + E)
4. Dogs					
5. Cats			!		
6. Guinea Pigs					
7. Hamsters					
8. Rabbits					
9. Non-human Primates					
10. Sheep					
11. Pigs		201			201
12. Other Farm Animals					
13. Other Animals					
	1				

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquitizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

(Chief Executive Offic	EADQUARTES RESEARCH FACILITY OFFICIAL ter or Legally Responsible Institutional Official) re is true, correct, and complete (7 U.S.C. Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)  Mark A Maloberti  Director, Office of Sponsored Research	DATE SIGNED

**APHIS FORM 7023** (AUG 91)

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. REGISTRATION NO.

FORM APPROVED

579-0036

with USDA

### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADQU 14-R-0073, Cust ld 749

include Zij STAN WHITE CAPRALOGICS, INC.

315 CZESKI ROAD P.O. BOX 236 HARDWICK, MA 01037 DEC - 5 2000

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

**FACILITY LOCATIONS (Sites)** 

L35 & 315 Czeski Road Hardwick MA DIDSZ

A. Animals Covered By The Animal Welfare Regulations	B Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO.  OF ANIMALS  (Cols. C +  D + E)
4. Dogs	NA				
5. Cats	NA			:	
6. Guinea Pigs	NA				
7. Hamsters	NA				
8. Rabbits	Ø	141	93		234
9. Non-human Primates	NA				
10. Sheep	Ø	67	5		72
11. Piqs	NA				
12. Other Farm Animals					
GOATS	42	44	19		105
13. Other Animals					

### ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, freatment, and use of animals, including approriate use of anesthetic, analgesic, and franquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility
- 2). Each principal investigator has considered alternatives to painful procedures
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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

Licertify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

STANLEY D.T. WHITE, PRESIDENT

APHIS FORM 7023 (AUG 91)

### All redactions on this page are pursuant to (b)(6) & (b)(7)

result in an order to cease and desist and to be subject to penalties as provided for in Section 2150

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additional information

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HNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. REGISTRATION NO

FORM APPROVED

0579-0036

d with USDA

### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADQU 14-R-0074, Cust ld 756 include 2

GENZYME TRANSGENICS CORPORATION P.O. BOX 202, 87 SPENCER ROAD CHARLTON DEPOT, MA 01509

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary)

**FACILITY LOCATIONS (Sites)** 

Site 1: GTC Farm, Charlton Depot

A. Animals Covered By The Animal Welfare Regulations	B Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits					
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
Goats (Charlto	n) 706		1209		1209
13. Other Animals		·			

- Professionally acceptable standards governing the care, freatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use

(Chief Executive Offi	EADQUARTES RESEARCH FACILITY OFFICIAL cer or Legally Responsible Institutional Official) ove is true, correct, and complete (7 U.S.C. Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
	Sandra Lehrman, M.D.	
Saudia Nusinoff Lebruace	President and CEO pGTC	ļ
Manufactor water of the second	Institutional Official	1.

**APHIS FORM 7023** (AUG 91)

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

JAN 1 7 2001

1. REGISTRATION NO.

2. HEADQUA
include Zip
CAROL A HANNAN
EUNICE KENNEDY SHRIVER CENTER
200 TRAPELO ROAD
WALTHAM, MA 02254

ROVED 179-0036

with USDA

### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

#### **FACILITY LOCATIONS (Sites)**

### E.K. Shriver Center Animal Facility

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	0	0	0
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals	0	0	0	0	0
13. Other Animals	0	0	0	0	0

### ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approxiate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Annual Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of annuals affected.
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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)

Licertify that the above is true, correct, and complete (7 U.S.C. Section 2143)

DATE SIGNED

CHemna

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

Carol Ann Hannan

Research Center Administrator

APHIS FORM 7023 (AUG 91)

0180-DOA 4N

FORM APPROVED 0 0579-0038

ered with USDA

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

1. REGISTRATION NO.

2. HEAD 14-R-0079, Cust ld 760 include WALTER NEWMAN

MILLENNIUM PHARMACEUTICALS, INC

640 MEMORIAL DRIVE CAMBRIDGE, MA 02139

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional

**FACILITY LOCATIONS (Sites)** 

640 Memorial Drive

215 Sidney Street (Closed as of 9/00)

45 Sidney Street

sheets if necessary.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or lests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be affached to this report).	F.  TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs	0	68	1456	0	1554
7. Hamsters	0	0	4	0	4
8. Rabbits					
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2). Each principal investigator has considered alternatives to painful procedures
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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

Licertify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) Walter Newman, SVP Biotherapeutics

Institutional Official

DATE SIGNED

**APHIS FORM 7023** (AUG 91)

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE	1. REGISTRATION NO.  14-R-0081	FORM APPROVED OMB NO 0579-0036	
	HEADQUARTERS RESEARCH FACILITY (No include Zip Code)	nme and Address, as registered with USDA.	
ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)	University of Massachusetts Lowell Research Foundation 600 Suffolk Street – 2 <sup>nd</sup> Floor South Lowell, MA 01854	NOT 1.7 . 000	

REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary)

Weed Hall, South Campus and Olsen Building, North Campus

### **FACILITY LOCATIONS (Sites)**

Center for Chronic Disease Control, Room 305, Weed Hall, Solomont Way, Univ. of Massachusetts Lowell, Lowell, MA 01854

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO. OF ANIMALS  (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters		1200			1200
8. Rabbits					
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
Mice	100				100
Rats		35			35

### ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
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(Chief Executive Of	EADQUARTERS RESEARCH FACILITY OFFICIAL ficer or Legally Responsible Institutional Official)	
SIGNATORE OF C.E.O. OR INSTITUTIONAL OFFICIAL	e is true, correct, and complete (7 U.S.C. Section 2143).  NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
Jours Hethoric	Louis J. Petrovic, Director External Funding, Technology Transfer and Partnering	11/16/00

APHIS FORM 7023 (AUG 91)

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.

ENUM APPENIEN

2. HEADQUARTERS F include Zip Code) 14-R-0082, Cust Id 140

TUFTS- NEW ENGLAND MEDICAL CENTER INC 171 HARRISON AVENUE, NEMC #112 BOSTON, MA 02111

## ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets it necessary.)

### **FACILITY LOCATIONS (Sites)**

TUSM Stearns/Arnold Bldg., NEMCH Ziskind Research Bldg., Tupper Research Bldg., Rehabilitation Inst., Bldg., and Pine Acres Rabbitry and Farms (PAR/F).

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	TOTAL NO OF ANIMAL:  (Cols. C + D + E)
4. Dogs			96		96
5. Cats		2	3		5
6. Guinea Pigs			24		24
7. Hamsters		3			3
8. Rabbits		11	452		463
9. Non-human Primates					None
10. Sheep			65		65
11. Pigs		37	248		285
12. Other Farm Animals					
Cow			2		2
13. Other Animals					
Horse			24		24

### ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)  Legally that the above is true, correct, and complete (7 U.S.C. Section 2143)					
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED			
Post of January	Ruth Iannazzo, Executive Director	12/06/00			
men ( Sumy	Tufts-New England Medical Center, Inc.				

APHIS FORM 7023 (AUG 91)

Ctor

'h USDA

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

14-R-0083, Cust of 705

FORM APPROVED
OMB NO 0579-0036

All redactions on this page are pursuant to (b)(6) & (b)(7)(c).

2. HEADQUARTI include Zip Co

1 REGISTRATION NO.

NEW ENGLAND COLLEGE OF OPTOMETRY 424 BEACON STREET BOSTON, MA 02115

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets it necessary.)

**FACILITY LOCATIONS (Sites)** 

New England College of Optometry
424 Beacon St., Buston, MA 02115

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach adiditional sheets if necessary or use APHIS FORM 7023A.)						
A. Animals Covered By The Animal Wellare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or lests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMALS  (COIS. C + D + E)	
4. Dogs						
5. Cats						
6. Guinea Pigs			, 10 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
7. Hamsters						
8. Rabbits						
Maymosets 9. Non-human Primates	18	0	26	C	26	
10. Sheep						
11. Pigs						
12. Other Farm Animals						
Chizkens	21	0	148	0	148	
13. Other Animals						
Ratz	127	0	210	0	210	
ASSURANCE STATEMENTS						

### SURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures
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- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)
Length that the above is true correct, and consider 17 (1.0.0.0) and 21.42

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

David Heath, OD, EdM Dear of Headenic Affairs DATE SIGNED

11/4/2000

Service for any college special country additional information Grau Sua-AN

FORM APPROVED

OMB NO 0579-0036

vith USDA,

### UNITED STATES DEPARTMENT OF AGRICULTURE

ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADQUAR include Zip

1. REGISTRATION NO.

14-R-0084, Cust ld 141 MARGARET E NEWELL, JD, MBA TUFTS UNIVERSITY

ASSOCIATE PROVOST FOR RESEARCH INSTITUTIONAL OFFICIAL MEDFORD, MA 02155

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.) **FACILITY LOCATIONS (Sites)** 

A.  Animals Covered By The Animal Wellare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of	F.  TOTAL NO OF ANIMALS  (COIs. C +
	surgery but not yet used for such purposes.	pain, distress, or use of pain- relieving drugs.	anesthetic, analgesic, or tranquilizing drugs were used	the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	18	0	18
8. Rabbits	0	0	0	0	0
9. Non-human Primates	4	30	0	0	34
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals	0	0	0	0	0
13. Other Animals rats	0				1264
mice pigeons	0	51	0	0	812
gerbil	0	0	71	0	71
birds starli	ngs 72	0	25	0	97

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2). Each principal investigator has considered alternatives to painful procedures
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use

(Chief Executive Off	HEADQUARTES RESEARCH FACILITY OFFICIAL ficer or Legally Responsible Institutional Official) bove is true, correct, and complete (7 U.S.C. Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL  MAGGULYFALLO (1)	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)  Margaret E. Newell, JD, MBA  Associate Provost for Research	DATE SIGNED

**ASSURANCE STATEMENTS** 

are resistor and for additional information 0186-SGA 4N

FORM APPROVED

79-0036 with USDA

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

MAY 24 2000

### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

include Zip

1. REGISTRATION NO.

2. HEADOUAF 14-R-0085, Cust Id 706 BARRY A SOLOMON

CIRCE BIOMEDICAL, INC.

SWINE UNIT #2

200 WESTBOROUGH ROAD NORTH GRAFTON, MA 01536

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

**FACILITY LOCATIONS (Sites)** 

SWINE UNIT II, N. GRAFTON, MA

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits					
9. Non-human Primates					
10. Sheep					@ 21NOV 00
11. Pigs	96	0	151	0	247
12. Other Farm Animals				,	151
13. Other Animals					
	<del> </del>				

- Professionally acceptable standards governing the care, freatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2). Each principal investigator has considered alternatives to painful procedures
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(Chief Executive Office	ADQUARTES RESEARCH FACILITY OFFICIAL r or Legally Responsible Institutional Official) is true, correct, and complete (7 U.S.C. Section 2143)
SIGNATUME OF C.E∠O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL Communication

May 4. Julian

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) Barry A. Solomon President and C.S.O.

DATE SIGNED

**APHIS FORM 7023** (AUG 91)

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1 REGISTRATION NO.

14-R-0086, Cust ld 142 2. HEADOUA E.S NUWAYSER PH.D. BIOTEK, INC. include Zip

21-C OLYMPIA AVENUE WOBURN, MA 01801

ROVED 579-0036

with USDA

### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary)

**FACILITY LOCATIONS (Sites)** 

175-H New Boston Street, Woburn, MA 01801

A. Animals Covered By The Animal Wellare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which feaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the leaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO.  OF ANIMALS  (Cals. C +  D + E)
4. Dogs		·			
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits		92			92
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
Rats		70			70
Mice		240			240
ASSURANCE STATEMENTS					

### Professionally acceptable standards governing the care, freatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)  Legally that the above is true, correct, and complete (7 U.S.C. Section 2143)					
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED			
hidrange	E.S. Nuwayser, Ph.D. President	10/26/00			

**APHIS FORM 7023** (AUG 91)

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.

ECOMA FORCE

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

14-R-0089, Cust ld 516

2. HEADQUARTERS KATHLEEN G MORGAN, PH.D. include Zip Code)

64 GROVE STREET

WATERTOWN, MA 02472

BOSTON BIOMEDICAL RESEARCH INSTITUTE 64 GROVE STREET NOV - 6 VON

SDA

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary)

**FACILITY LOCATIONS (Sites)** 

64 Grove Street, Watertown, MA 02472

A Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits	none	3	none	none	3
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
ferrets	none	53	none	none	53
ASSURANCE STATEMENTS					

- 1) Professionally acceptable standards governing the care, freatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility
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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)  I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)				
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED		
tallient My	Kathleen G. Morgan, Ph.D. Director	11/1/00		

**APHIS FORM 7023** (AUG 91)

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

All redactions on this page are pursuant to (b)(6) & (b)(7)(c).

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

1. REGISTRATION NO.

14-R-0090, Cust ld 12

FORM APPROVED OMB NO 0579-0036

" WITH USDA

2. HEADQUARTE!	990, Cust ld 134	
include Zip Cor		
	MOUNT IDA COLLEGE	
*	777 DEDUAL	
	777 DEDHAM STREET	
'	NEWTON, MA 02159	- :

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary)

**FACILITY LOCATIONS (Sites)** 

Veterinary Technology Building Laboratory Animal Care Facility

REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adiditional sheets if ne	cessary or use APHIS FORM 7023A)	
A.  Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research,	F.  TOTAL NO OF ANIMALS  (COIS. C + D + E)
4. Dogs			32		32
5. Cats			18		18
6. Guinea Pigs					
7. Hamsters		· · · · · · · · · · · · · · · · · · ·			
8. Rabbits			6		b
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
ASSURANCE STATEMENTS					

- 1) Professionally acceptable standards governing the care, freatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility
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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)
Learning that the above is true paramet, and a material (2.110.0.0.)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

DATE SIGNED

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

resident

11/16/00

APHIS FORM 7023 (AUG 91)

See reverse side for additional information

UNITE: STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO 14-R-0092 FORM APPROVED OMBINO. 0579-0066

HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with the USDA, include Sip Code)

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

Brigham & Women's Hospital 75 Francis Street Boston, MA 02115 Status: Active

9 3 1 2302

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

### **FACILITY LOCATIONS (Sites)**

See attached.

See attached.

Α.	B. Number of	C. Number of	D. Numbers of animals	E. Number of animals upon which teaching,	F.
Animals Covered By The Animal Welfare Regulations  12. &/OR 13. Other (List by Species)	animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	animals upon which teaching research, experiments or tests were conducted involving no pain, distress, or use of pain relieving drugs.	upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report.)	TOTAL NO. OF ANIMALS  (Cols. C + D + E)
4. Dogs	0	0	14	0	14
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	261	930	0	1,191
7. Hamsters	0	12	588	0	600
8. Rabbits	0	26	743	0	769
9. Non-human Primates	0	0	26	0	26
10. Sheep	0	0	0	0	0
11. Pigs	0	4	194	0	198
12. Other Farm Animals					
13. Other Animals					

### **ASSURANCE STATEMENTS**

- 1. Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2. Each principal investigator has considered alternatives to painful procedures.
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
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(Chief Executive Officer	QUARTERS RESEARCH FACILITY OFFICIAL or Legally Responsible Institutional Official) le, correct, and complete (7 U.S.C. Section 2143).	
SIGNATURE OF C.E.O OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL  Keith A. Marcotte, Vice President	DATE SIGNED 11/22/00
test (1. Il/autte)	Research Administration, Brigham & Women's Hospital 10 Vining Street, Boston, MA 02215	11/22/00

### **FACILITY SITES LISTING**

Licensee/Registrant Name:

Brigham & Women's Hospital

License/Registration Number:

14-R-0092

Please list below all sites that house animals under the above registration number. Be sure to include all requested information. Do not leave any spaces blank. If lines do not apply, please mark it N/A. If you have more than three (3) sites, please copy this form as many times as needed before filling in the sites.

Site No.:

Name/Department:

Center for Animal Resources & Comparative Medicine (ARCM)

at Brigham & Women's Hospital

Address:

Boston, MA 02115

(1) Building:

Floor/Room:

ARCM/Thorn Building - 20 Shattuck Street 20 Shattuck Street - 16th Floor

Contact Person:

Phone Number:

(2) Building:

Floor/Room:

Contact Person:

Phone Number:

ARCM/Longwood Medical Research Center (LMRC)

220 Longwood Avenue - Ground Level

(3) Building:

Floor/Room:

Contact Person:

Phone Number:

ARCM/Massahusetts College of Pharmacy (MCP)

One Palace Road - Lower Level

Site No.:

3 Name/Department:

USDA Registration No:

Address:

Building: Floor/Room:

Contact Person:

Phone Number:

Pine Acres Rabbitry/Farm (SATELLITE)

14-B-0052

299 East Main Street, Norton MA 02766

Main Building

First Floor

### **FACILITY SITES LISTING**

Licensee/Registrant Name:

Brigham & Women's Hospital

License/Registration Number:

7

14-R-092

Please list below all sites that house animals under the above registration number. Be sure to include all requested information. Do not leave any spaces blank. If lines do not apply, please mark it N/A. If you have more than three (3) sites, please copy this form as many times as needed before filling in the sites.

Site No.:

4 Name/Department:

USDA Registration No.:

Address:

Building: Floor/Room:

Contact Person: Phone Number: HMS/ARCM - Seeley G. Mudd (SATELLITE)

14-R-019

250 Longwood Avenue, Boston MA 02115

Seeley G. Mudd Building

Basement Level

Site No.:

Name/Department:

USDA Registration No.:

Address:
Building:
Floor/Room:
Contact Person:
Phone Number:

HMS/ARCM - Central (SATELLITE)

14-R-019

665 Huntington Avenue, Boston MA 02115 Harvard School of Public Health - Bldg. II

Ground and Basement Levels

Site No.:

8 Name/Department:

USDA Registration No.:

Address:
Building:
Floor/Room:
Contact Person:
Phone Number:

HMS/ARCM - HIM (SATELLITE)

14-R-019

77 Avenue Louis Pasteur, Boston MA 02115

Harvard Institutes of Medicine Ground and Basement Levels UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

DT OF PEOPADON FACILITY

1. REGISTRATION NO.

2. HEADOUA 14-R-0094, Cust ld 145
DIANA C WALSH
DIANA C WALSH
WELLESLEY COLLEGE
106 CENTRAL STREET
WELLESLEY, MA 02481

19-0036

ith USDA,

NOT 20 CAN

## ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

**FACILITY LOCATIONS (Sites)** 

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS FORM 7023A.)							
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO. OF ANIMALS  (Cois. C + D + E)		
4. Dogs							
5. Cats							
6. Guinea Pigs							
7. Hamsters							
8. Rabbits			3				
9. Non-human Primates		i					
10. Sheep							
11. Pigs							
12. Other Farm Animals							
13. Other Animals							
	<del></del> _						

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)
Longton that the above is two covers to and consider (7.11.0.0.0

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143

DATE SIGNED

Diana Chapman Walsh, President

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

11/15/00

APHIS FORM 7023 (AUG 91)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

Cor

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

J. 1 6 2000 2.HE

2. HEADQL 14-R-0096, Cust Id 146

1. REGISTRATION NO.

MC LEAN HOSPITAL CORPORATION
MCLEAN HOSPITAL CORPORATION
MCLEAN HOSPITAL CORPORATION

MCLEAN HOST TO ALL 115 MILL STREET BELMONT, MA 02478 PROVED 0579-0036

d with USDA

### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

**FACILITY LOCATIONS (Sites)** 

McLean Hospital Core Animal Facility (MRC Ground, Oaks II, Oaks IV)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS FORM 7023A.) '						
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO.  OF ANIMALS  (Cols. C +  D + E)	
4. Dogs					N/A	
5. Cats					N/A	
6. Guinea Pigs					N/A	
7. Hamsters					N/A	
8. Rabbits	-0-	-0-	-0-	-0-	-0-	
9. Non-human Primates	-0-	-0-	119	-0-	119	
10. Sheep					N/A	
11. Pigs					N/A	
12. Other Farm Animals					N/A	
13. Other Animals	Rats and	nice not co	vered by these	reporting requirements		
ASSURANCE STATEMENTS						

### SURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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(Chief Executive Officer	DQUARTES RESEARCH FACILITY OFFICIAL or Legally Responsible Institutional Official) strue, correct, and complete (7 U S C Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
6) 671	Peter A. Paskevich, Vice President/Directo	r
Bolas ling	Research Administration	9/30/08

APHIS FORM 7023 (AUG 91)

UNITED STATES DEPARTMENT OF A. ULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO 14 R 0096

FORM APPROVED OMB NO 0579-0036

ji japan

2. HEADQUARTERS RESEARCH FACILITY (Name and Address as registered with USDA include Zip Code)

# CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

McLean Hospital Corporation 115 Mill Street Belmont, MA 02478

Animals Covered By The Animal Wellare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which leaching, research, experiments, or lests were conducted involving no pain, distress, or use of pain-relieving drugs.	D Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analyesic, or tranquilizing drugs were	E. Number of animals upon which feaching, experiments, research, surgery or fests were conducted involving accumpanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the feaching, research, experiments, surgery, or lests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be effected to this report).	FOTAL OF ANIA
(Usi by species)	-0-	-0-	used —O—	-0-	-0-
Ion-human	-0-	-0-	119	-0-	119
rimates					117
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- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approxiate use of anesthetic lanalysis: and tranquilizing drugs, prior to, during and following actual research, feaching, testing, surgery, or experimentation were followed by this research facility.
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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) (Certify that the above is true, correct, and complete (7 U.S.C. Section 2143)				
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED		
Ochary	Peter A. Paskevich, Vice President Director, Research Administration	9/30/00		

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.

APPROVED 0 0579-0036

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ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEAD(

Michael Lanner Center for Blood Research, The 800 Huntington Avenue Boston, MA 02115

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3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS (Siles)						
See Attached						

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in feaching, festing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which leaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompunying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO.  OF ANIMALS  (Cols. C +  D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	Q
6. Guinea Pigs	0	30	00	0	<b>3</b> 0
7. Hamsters	o .	0	ე	<u></u>	0
8. Rabbits	0	0	0	0	0
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	<u>ე</u>
11. Pigs	0	0	00	0	0
12. Other Farm Animals	0	0	0	0	0
13. Other Animals	0	0	0	0	0

### ASSURANCE STATEMENTS

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)
Leartify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

Michael Lanner, C.R.A. Executive Vice President

DATE SIGNED

11-20-00

APHIS FORM 7023 (AUG 91)

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

(TYPE OR PRINT) 7

ANNUAL REPORT OF RESEARCH FACILITY

14-R-0108, Cust ld 517 2. HEA

1. REGISTRATION NO.

inch DONALD G COMB NEW ENGLAND BIOLABS, INC.

> 32 TOZER ROAD BEVERLY, MA 01915

EGRM APPROVED NO 0579-6036

stered with USDA

**FACILITY LOCATIONS (Siles)** 

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional

32 Tozer Road, Beverly, MA

sheets if necessary.)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D Number of animals upon which experiments, leaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO.  OF ANIMALS  (Cols. C +  D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	0	0	0
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals	0	0	0	0	0
13. Other Animals	0	0	0	0	0

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility
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CERT	TFICATION BY HEADQUARTES RESEARCH FACHLITY OFFICIAL
(CI	nief Executive Officer or Legally Responsible Institutional Official)
	I certify that the above is true correct, and complete to the C. Courses 21.425

DATE SIGNED

Donald G. Comb, Ph.D. President

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

9/21/00

APHIS FORM 7023 (AUG 91)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

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UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

12 200 DEC

1. REGISTRATION NO.

FORM APPROVED OMB NO 0579-0036

All redactions on this page are pursuant to (b)(6) & (b)(7)(c).

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADQUATTER DOCE AND EACH ITY (Name and Address as registered with USDA

include Zi 14-R-0109, Cust ld 151

ATTN: PRESIDENT FOR R, H & T'S

WHEATON COLLEGE

RT. 123

NORTON, MA 02766

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or new porpositional additional **FACILITY LOCATIONS (Sites)** 

Psychobiology - Science Center PREPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if neces Number of Number of animals upon which teaching, C Number of D. Number of animals upon animals being experiments, research, surgery or tests were animals upon which experiments, conducted involving accompanying pain or distress **Animals Covered** bred. which teaching, teaching, research, surgery, or tests were conditioned, or to the animals and for which the use of appropriate By The Animal research. TOTAL NO. Welfare Regulations held for use in anesthetic, analgesic, or tranquilizing drugs would experiments, or conducted involving OF ANIMALS have adversely affected the procedures, results, or teaching, lesting, tests were accompanying pain or distress to the animals experiments, interpretation of the teaching, research, conducted research, or experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these involving no (Cols. C + D + E) and for which appropriate surgery but not pain, distress, or anesthetic, analgesic, or yet used for such animals and the reasons such drugs were not used use of paintranquilizing drugs were purposes. must be attached to this report). relieving drugs. used Dogs Cats Guinea Pigs Hamsters Rabbits Non-human Primates 10. Sheep Pigs Other Farm Animals 13. Other Animals

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility
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(Chief Executive Officer or	UARTES RESEARCH FACILITY OFFICIAL Legally Responsible Institutional Official) e, correct, and complete (7 USC Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED

Susanne Woods Provost

ASSURANCE STATEMENTS

UNITED STATES DEPARTMEN OF AGRICULTURE ANIMAL AND PLANT HEALTH IS SPECTION SERVICE

1. REGISTRATION NO.

FORM APPROVED
OMB NO 0579-0036

14-R-0112, Cust Id 152 2. HEAD JOHN PRATT NO 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) HEAD JOHN PRATT
Includ
WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARC
NINE CAMBRIDGE CENTER

CAMBRIDGE, MA 02142

red with USDA,

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

**FACILITY LOCATIONS (Sites)** 

Same as item 2

A. Animals Covered By The Animal Wellare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or lests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMAL:  (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits					
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
		284 chicke because th	ns were reporte e chickens were	d on the Annual Report for MI housed there	<u> </u>
13. Other Animals					
Mice		661	20,300		20,961
Frogs		640	0		640

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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CERTIFICATION BY HEADQUARTI	ES RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally	Responsible Institutional Official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

John Pratt

Associate Director

DATE SIGNED

10/26/00

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1 1 200

14-R-0114, Cust ld 1792

2. HEADQ DONALD O'SHEA

1. REGISTRATION (5.)

MOUNT HOLYOKE COLLEGE **BIOLOGY DEPARTMENT** 50 COLLEGE STREET SOUTH HADLEY, MA 01075

---- \*PPROVED 0579-0036

ed with USDA,

### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional

**FACILITY LOCATIONS (Siles)** 

BIOLUGY DEPT. CLAPP LAB RM. 6

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in leaching, lesting, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquiltzing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO. OF ANIMAL:  (COIS. C + D + E)
4. Dogs					
5. Cats		<u> </u>	5		
6. Guinea Pigs			WI WI	7 7	
7. Hamsters		DED 1	ANY		
8. Rabbits	1.00	VED	iN		
9. Non-human Primates	No	USED	ANI MALS WI		
10. Sheep					
11. Pigs	<u> </u>				
12. Other Farm Animals					
13. Other Animals					
		14 - 17 - 17 - 17 - 17 - 17 - 17 - 17			

- Professionally acceptable standards governing the care, freatment, and use of animals, including approriate use of anesthetic, analgesic, and franquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility
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- The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

Ficertify that the above is true, correct, and complete (7 U.S.C. Section 2143)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

Donal B. O'Shea Dean of Faculty

10-6-00

**APHIS FORM 7023** (AUG 91)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

This report is required by law result in an order to cease and desist and to be subject to penalties as provided for in Section 2150

additional information

6180-DCA-4N

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO

FORM APPROVED OMR NO 0579-0036

14-R-0116, Cust ld 153 2. HEADC include

red with USD

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

GENETICS INSTITUTE, INC. 87 CAMBRIDGEPARK DRIVE CAMBRIDGE, MA 02140

NOV 2 1 20

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

**FACILITY LOCATIONS (Siles)** Site 2: Site 1: Building G. Andover 50 Cambridge Park Drive, Cambridge

REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adiditional sheets if ne	cessary or use APHIS FORM 7023A.)	
A.  Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMALS  (Cols C + D ÷ E)
4. Dogs			51		51
5. Cats					
6. Guinea Pigs		38			38
7. Hamsters					
8. Rabbits		11	242		253
9. Non-human Primates			109		109
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
ASSURANCE STATEMENTS	· <del>/</del>			<u></u>	·

- Professionally acceptable standards governing the care, freatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of

(Chief Executive (	Y HEADQUARTES RESEARCH FACILITY OFFICIAL Officer or Legally Responsible Institutional Official) above is true, correct, and complete (7 U.S.C. Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
gly Grey	John Knopf, Ph.D., Vice President Discovery Research	11/16/2000

APHIS FORM 7023 (Replace) VS FORM 18-23 (OCT 88), which is obsolute ) /AUG 91)

See reverse ande for additional information

Microspenic, Report Scatter & 6180-00A-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NO.

2. HEADOU. E

14-R-0119, Cust Id 143
ELIEZAR A DAWIDOWICZ
MARINE BIOLOGICAL LABORATORY
7 MBL STREET
WOODS HOLE, MA 02543

PROVED 1579-0036

1 with USDA

LAB

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets it necessary.)

FACILITY LOCATIONS (Siles)

# 15 North Street, Woods Hole, MA 02543

A. Animals Covered By The Animal Wellare Regulations	B. Number of animals being bred, conditioned, or held for use in leaching, lesting, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which leaching, research, experiments, or lests were conducted involving no pain, distress, or use of pain-relieving drugs.	D Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquitizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be affected to this report).	F.  TOTAL NO. OF ANIMALS  (Cols. C + D + E)
4. Dogs					<u> </u>
5. Cats					<u> </u>
6. Guinea Pigs					
7. Hamsters			10		10
8. Rabbits			4		4
9. Non-human Primates					<b></b>
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
					ļ

### SURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, leaching, testing, surgery, or experimentation were followed by this research facility.
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CERTIFICATION BY HEADQUARTES RESEARCH FACHLITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

ndoin

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL PLYDE OF PINNY

E. A. Dawidowicz, Ph.D. Director

E. A. Dawidowicz, Ph.D., Director Office of Education

DATE SIGNED

11/58/00

FORM APPROVED

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

14-R-0123, Cust ld 154

1. REGISTRATION NO.

-0123, Cust ld 154 N SMITH, PH D OMB NO 0579-0036

ered with USDA,

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

2. HEAD INCLUSE OF THE PROPERTY OF THE PROPERT

OCT 2 4 2000

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS (Sites)

Framingham, MA

Cambridge, MA

Bolton, MA

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets it necessary or use APHIS FORM 7023A)

A

B Number of C Number of D. Number of animals upon which leaching.

A. Animals Covered By The Animal Wetlare Regulations	B Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which leaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs			209		209
7. Hamsters					
8. Rabbits			267		267
9. Non-human Primates					
10. Sheep					
11. Pigs			74		74
12. Other Farm Animals					
Goats	18		88		88
13. Other Animals					
Horses			5		5
					***

### ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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(Chief Executive Officer or	UARTES RESEARCH FACILITY OFFICIAL Legally Responsible Institutional Official) e, correct, and complete (7 USC Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL WIGGIOU	Dr. Alan E. Smith, Senier V.P. of Research, I.O.	DATE SIGNED

APHIS FORM 7023 (AUG 91)

UNITED STATES DEPARTMENT OF GRICULTURE ANIMAL AND PLANT HEALTH INSPL. TION SERVICE

1. REGISTRATION NO.

FORM APPROVED A OMB NO 0579-0038

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

include Zip MARK C ROESSEL ADVANCED MAGNETICS INC.

2. HEADQUAI 14-R-0126, Cust ld 155

**61 MOONEY STREET** CAMBRIDGE, MA 02138

3. REPORTING FACILITY (List all locations where animals, were housed or used in actual research, testing, teaching, or experimentation, or held for these, purposes. Attach additional sheets if necessary.)

**FACILITY LOCATIONS (Sites)** 

## 61 MOONEY STREET CAMBRIDGE MA 02138

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach adiditional sheets if necessary or use APHIS FORM 7023A)					
A.  Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or lests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which feaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	TOTAL NO OF ANIMALS  (Cois. C + D + E)
4. Dogs	0	0	0	Q	0
5. Cats	0	0	0	0	D
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	$\mathcal{D}$
8. Rabbits	0	0	0	0	0
9. Non-human Primates	0	0	0	0	0
10. Sheep	O	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals	0	0	0	0	0
13. Other Animals	0	0	0	0	D
ASSURANCE STATEMENTS					

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIA
(Chief Executive Officer or Legally Responsible Institutional Official)
Lectify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

MARY C. ROESSEL

APHIS FORM 7023 (AUG 91)

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

1. REGISTRATION NO. 14-R-00128 FORM APPROVED OMB NO 0579-0036

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with the USDA, include Sip Code)

Harvard University Faculty of Arts & Sciences 24 University Hall Cambridge, MA 02138 Status: Active

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aences	i.	j	,

REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

### **FACILITY LOCATIONS (Sites)**

See attached.

See attached.

A.  Animals Covered By The Animal Welfare Regulations  12. &/OR 13. Other (List by Species)	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching research, experiments or tests were conducted involving no pain, distress, or use of pain relieving drugs.	D. Numbers of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report.)	TOTAL NO. OF ANIMALS  (Cols. C + D+E)
4. Dogs	0	0	2	0	2
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	2	1	4	0	5
9. Non-human Primates	0	30	0	0	30
10. Sheep	0	0	0	0	0
11. Pigs (mini)	0	0	6	0	6
12. Other Farm Animals					
Goats	0	0	12	0	12
Ponies	1	0	0	0	0
13. Other Animals		State			
_Alligators	0	0	3	0	3

### ASSURANCE STATEMENTS

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- 4. The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

### CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL

DATE SIGNED

Ann E. Berman, Senior Advisor to the Dean of the FAS Harvard University/Faculty of Arts & Sciences University Hall, Cambridge MA 02138 11/29/00

See reverse side for additional information

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered

Interagency Report Control No. 0186-DCA-41

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 14-R-00128 FORM APPROVED OMB NO. 0579-0036

CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Harvard University Faculty of Arts & Sciences 24 University Hall Cambridge, MA 02138

with the USDA, include Sip Code)

Status: Active

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l	REPORT OF ANIMALS USE	ED BY OR UNDER CO	NTROL OF RESEAR	CH FACILITY (Attach additional :	sheets if necessary or use APHIS FORM 7023A.)	
_	A. Animals Covered By The Animal Welfare Regulations  12. &/OR 13. Other (List by Species)	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching research, experiments or tests were conducted involving no pain, distress, or use of pain relieving drugs.	D. Numbers of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report.)	F.  TOTAL NO. OF ANIMALS  (Cols. C + D + E)
_	13. Other continued					
_	Bats	0	0	8	0	8
_	Birds (wild caught)	0	0	31	0	31
_	Chinchillas	1	0	0	0	0
_	_ Ducks (mallards)	0	0	12	0	12
_	- Emus	4	0	0	0	0
_	-Fish	7500	27,509	0	0	27,509
_	Frogs	3	533	30	0	563
_	Guinea Fowl	0	0	10	0	10
<u>.                                    </u>	Hedgehogs	1	0	0	0	0
_	Iguanas	0	0	2	0	2
_	-Lizards (monitors)	0	0	11	0	11
_	Lizards (skinks)	0	0	225	0	225
_	Lizards (other)	2	0	16	0	16
_	Salamanders	2	107	0	0	107
	Sharks	0	7	0	0	7

- 1. Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)
I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

**ASSURANCE STATEMENTS** 

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL

DATE SIGNED

Ann E. Berman, Senior Advisor to the Dean of the FAS Harvard University/Faculty of Arts & Sciences University Hall, Cambridge MA 02138 11/29/00

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UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO 14-R-00128 FORM APPROVES OMB NO. 0579-0036

CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) 2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with the USDA, include Sip Code)

Harvard University Faculty of Arts & Sciences 24 University Hall Cambridge, MA 02138 Status: Active

A.	B. Number of	C. Number of	D. Numbers of animals	E. Number of colorals was subjet to objet	l F.
Animals Covered By The Animal Welfare Regulations	animals being bred, conditioned, or held for use in teaching, testing, experiments,	animals upon which teaching research, experiments or tests were conducted involving no	upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research,	TOTAL NO. OF ANIMALS
12. &/OR 13. Other (List by Species)	research, or surgery but not yet used for such purposes.	pain, distress, or use of pain relieving drugs.	anesthetic, analgesic, or tranquilizing drugs were used.	experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report.)	(Cols. C + D + E)
13. Other continued					
Snakes	4	1	0	0	1
~Fegus	0	0	2	0	2
Toads	0	30	28	0	58
-Turtles	4	0	0	0	0
Wallabies	0	0	4	0	4
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hold Wilderbelevon was bro					
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- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)  I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNAȚURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

du & Bein

**ASSURANCE STATEMENTS** 

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL

DATE SIGNED

Ann E. Berman, Senior Advisor to the Dean of the FAS Harvard University/Faculty of Arts & Sciences University Hall, Cambridge MA 02138 11/29/00

### **FACILITY SITES LISTING**

Licensee/Registrant Name:

Harvard University

Faculty of Arts & Sciences

License/Registration Number:

1

14-R-128

Please list below all sites that house animals under the above registration number. Be sure to include all requested information. Do not leave any spaces blank. If lines do not apply, please mark it N/A. If you have more than three (3) sites, please copy this form as many times as needed before filling in the sites.

Site No.:

Name/Department:

Office of Animal Resources (OAR)

Address:

Harvard University Cambridge, MA 02138

(1) Building:

Floor/Room:

Fifth Floor

Contact Person: Phone Number:

Building: (2)

Floor/Room: Contact Person:

Phone Number:

Museum of Comparative Zoology - 26 Oxford Street

The Biological Laboratories - 16 Divinity Avenue

First and Second Floors

(3) Building:

Floor/Room:

Contact Person:

Phone Number:

William James Hall - 33 Kirkland Street

Fairchild Biochemistry Building - 7 Divinity Ave.

10th Floor

(4) Building:

Floor/Room:

Contact Person:

Lower Level

Phone Number:

Site No.:

2 Name/Department: Concord Field Station (CFS)

Address:

Old Causeway Road, Bedford MA 01730

Building:

Main and fields

Floor/Room:

Contact Person:

First Floor and Grounds

Phone Number:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE	1 REGISTRATION NO. FORM APPROVED OMB NO 06/9-8036
ANNUAL REPORT OF RÉSEARCH FACILITY (TYPE OR PRINT)	2. HEADOUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA include Zip Code)  Biopure Corporation  11 Hurley Street  Cambridge, MA 02141
$(x_1, y_2, y_3, y_4, y_4, y_5, y_5, y_5, y_5, y_5, y_5, y_5, y_5$	Status: (Cancelled) 18 Jul 00

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS (Sites)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS FORM 7023A.) B. Number of Number of animals upon which teaching, C Number of Number of animals upon animals being experiments, research, surgery or tests were animals upon which experiments. **Animals Covered** bred. which teaching, conducted involving accompanying pain or distress teaching, research, to the animals and for which the use of appropriate conditioned, or By The Animal research. TOTAL NO surgery, or tests were held for use in anesthetic, analgesic, or tranquilizing drugs would OF ANIMALS Welfare Regulations experiments, or conducted involving have adversely affected the procedures, results, or teaching, testing, tests were accompanying pain or interpretation of the teaching, research, experiments, conducted distress to the animals research, or experiments, surgery, or tests. (An explanation of (Cols. C + D + E) involving no and for which appropriate surgery but not yet used for such the procedures producing pain or distress in these pain, distress, or anesthetic, analgesic, or animals and the reasons such drugs were not used use of paintranquilizing drugs were purposes. relieving drugs. must be attached to this report). Dogs Cats Guinea Pigs Hamsters Rabbits Non-human Primates 10. Sheep Pigs 11. 12. Other Farm Animals 13. Other Animals -0-TOTAL

### ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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(Chief Executive Officer or )	UARTES RESEARCH FACILITY OFFICIAL Legally Responsible Institutional Official) , correct, and complete (7 USC Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)  Carl W. Rausch, CEO	DATE SIGNED

APHIS FORM 7023 (AUG 91)

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

14-R-0133, Cust ld 149

1. REGISTR

2. HEADOL RICHARD F SELDEN

include 2 TRANSKARYOTIC THERAPIES INC. 195 ALBANY STREET CAMBRIDGE, MA 02139

FORM APPROVED 0579-0036 d with USDA

### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

NOV 28 2000

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional

**FACILITY LOCATIONS (Siles)** 

195 Albany St.

02139 Cambridge, MA

A.  Animals Covered By The Animal Wellare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which leaching, research, experiments, or lests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the leaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters	0	121	0	0	121
8. Rabbits		0	44	0	4
9. Non-human Primates					
10. Sheep					
11. Pigs				·	
12. Other Farm Animals					
13. Other Animals					
					Į

- Professionally acceptable standards governing the care, freatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, feaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

Licertify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

Richard F Selden, M.D., Ph.D. President and CEO

DATE SIGNED

APHIS FORM 7023

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

(AUG 91)

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. REGISTRATION NO

FORM APPROVED. NO. 0579-0036

14-R-0134 2. HEA

inch YUTAKA ISHIZAKA EISAI RESEARCH INSTITUTE OF BOSTON, INC. <

4 CORPORATE DRIVE ANDOVER, MA 01810

stered with USDA,

### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.) Andover, MA 01810 4 Corporate Dr.

**FACILITY LOCATIONS (Sites)** 

4 Corporate Dr. Andover, MA 01810 (Rm. 180)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO.  OF ANIMALS  (Cols. C +  D + E)
4. Dogs				<u></u>	
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits					
9. Non-human Primates					
10. Sheep					ļ
11. Pigs					<u> </u>
12. Other Farm Animals				·	
13. Other Animals					

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use

### CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

Licertify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) Yutaka Ishizaka

Administration & Legal Affairs

Executive Director

10/24/00

DATE SIGNED

APHIS FORM 7023 (AUG 91)

UISU DOA AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO

14-R-0135, Cust ld 159

□ 0579-0036

7 0373-0036

red with USDA,

#### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEAD( include B A S F BIORESEARCH CORPORATION 100 RESEARCH DRIVE GROUND FLOOR WORCESTER, MA 01605

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS (Sites)	UU 1 11 0 2019

Α.	B. Number of	C Number of	D. Number of animals upon	E. Number of animals upon which teaching,	F.
Animals Covered By The Animal Welfare Regulations	animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0 .	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	0	0	0
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	U	0	0
11. Pigs	0	0	0	0	U
12. Other Farm Animals	0	0	0	0	0
13. Other Animals	0	0	0	0	0
<del></del>					

## ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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(Chief Executive Officer	DQUARTES RESEARCH FACILITY OFFICIAL or Legally Responsible Institutional Official) strue, correct, and complete (7 U.S.C. Section 2143)	
SIGNATURE OF G.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
1)1. 1-1/4.	Robert Kamen, Ph.D., President	9-25-00
KOUNT L'UNIE	ĺ	

APHIS FORM 7023 (AUG 91)

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

14-R-0137, Cust ld 1658

\* APPHOVED

40 0579-0036 tered with USDA

2. HEAL KARL M EBERT, PH.D. inclui

SHREWSBURY, MA 01545

TRANXENOGEN, INC. THE WORCESTER FOUNDATION FOR EXPERIMENTAL

222 MAPLE AVE

001 / 1000

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites)

هينزيه barn

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO.  OF ANIMAL  (Cols. C +  D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits					
9. Non-human Primates					
10. Sheep					
11. Pigs		2			2
12. Other Farm Animals					
13. Other Animals					

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICE	AI.
(Chief Executive Officer or Legally Responsible Institutional Official)	

Licertify that the above is true, correct, and complete (7.0 S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

APHIS FORM 7023

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

(AUG 91)

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO

14-R-0139

----- APPROVED ) 0579-0036

red with USDA,

# All redactions on this page are pursuant to (b)(6) & (b)(7)(c).

#### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADI Include HYBRIDON, INC. 155 FORTUNE BLVD MILFORD, MA 02139

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS (Sites)

REPORT OF ANIMALS USED BY C	R UNDER CONTROL OF	RESEARCH FACILITY	' (Attach adiditional sheets if ne	cessary or use APHIS FORM 7023A.) '	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be affached to this report).	TOTAL NO. OF ANIMALS  (Cols. C + D + E)
4. Dogs					
5. Cats		<u> </u>			
6. Guinea Pigs			18		18
7. Hamsters					
8. Rabbits					
9. Non-human Primates					
10. Sheep					
11. Pigs		· · · · · · · · · · · · · · · · · · ·			
12. Other Farm Animals					
13. Other Animals					

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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(Chief Executive Officer	DQUARTES RESEARCH FACILITY OFFICIAL or Legally Responsible Institutional Official) strue, correct, and complete (7 USC Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
Kurdusu	R.G.ANDERSEN, CFO	28 Nev 'oc

APHIS FORM 7023 (AUG 91)

**ASSURANCE STATEMENTS** 

#### All redactions on this page are pursuant to (b)(6) & (b)(7)(c).

result in an order to cease and desist and to be subject to penalties as provided for in Section 2150

additional information

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UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

14-R-0140, Cust ld 1724

1. REGISTRATION NO.

2. HEAD

NITROMED, INC. 12 OAK PARK DRIVE BEDFORD, MA 01730 FORM APPROVED 1 10 0579-0036 V ered with USDA

#### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

inclue

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets it necessary.)

**FACILITY LOCATIONS (Siles)** 

NITROMED INC., 12 OAK PARK DR. BEDFORD MA 01730

REPORT OF ANIMALS USED BY C	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adiditional sheets if ne	cessary or use APHIS FORM 7023A.)	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, festing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs					
5. Cats			-		
6. Guinea Pigs					<u> </u>
7. Hamsters					
8. Rabbits			394		394
9. Non-human Primates					ļ
10. Sheep					
11. Pigs					ļ
12. Other Farm Animals					
13. Other Animals			77-1		
					<u> </u>

#### ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIA
(Chief Executive Officer or Legally Responsible Institutional Official)
Licertify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.D. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

MICHAEL LOBERG , PL.D. , C.E.O.

11/20/00

APHIS FORM 7023 (AUG 91)

result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

additional information

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UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

28

1. REGISTRATION NO.

FORM APPROVED 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADOU 14-R-0141, Cust ld 1767 include Z

with USDA,

ANTIGENIES, LLC Antigonics, Inc. 34 COMMERCE WAY **WOBURN, MA 01801** 

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

**FACILITY LOCATIONS (Sites)** 

Animal Facility

A. Animals Covered By The Animal Welfare Regulations	B Number of animals being bred, conditioned, or held for use in teaching, festing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMAL:  (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs	3	51	7		58
7. Hamsters					
8. Rabbits					
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
	-				

#### ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility
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CERTIFICATION BY HEAI	DQUARTES RESEARCH FAC	ILITY OFFICIAL
(Chief Executive Officer	or Legally Responsible Institut	tional Official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

DATE SIGNED

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

Saro Armen, Ph.D. Chairman and

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

11-27-00

APHIS FORM 7023 (AUG 91)

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UNITED STATES DEPARTMENT OF AGRICULTURE

1. REGISTRATION NO.

PROVED

ANIMAL AND PLANT HEALTH INSPECTION SERVICE

2. HEADOU. 14-R-0142 Cust ld 1779 include Zi

1579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

AQUILA BIOPHARMACEUTICALS 175 CROSSING BLVD FRAMINGHAM, MA 01702

1 with USDA,

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets it necessary)

FACILITY LOCATIONS (Sites)

175 Crossing Blvd. Framingham, MA 01702

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in leaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D Number of animals upon which experiments, teaching, research, surgery, or fests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	TOTAL NO. OF ANIMAL: (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs	13	79	82	0	161
7. Hamsters					
8. Rabbits					ļ
9. Non-human Primates					
10. Sheep					ļ
11. Pigs					ļ
12. Other Farm Animals	-				
13. Other Animals					
					ļ
		Ī			

#### ASSURANCE STATEMENTS

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

Gerald A. Beltz, Pn.D.

Risearch and Derilopment

DATE SIGNED

10/16/00

**APHIS FORM 7023** (AUG 91)

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FORM APPROVED

9-0036

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

2. HEADOUAR 14-R-0143, Cust ld 1788 include Zip ( DR JOSHUA BOGER

1. REGISTRATION NO.

VERTEX PHARMACEUTICALS, INC.

130 WAVERLY STREET MBRIDGE, MA 02139 III USDA

ANNUAL PEROPE OF PECCAPOLICACILITY	VE
ANNUAL REPORT OF RESEARCH FACILITY	130
(TYPE OR PRINT)	CA

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

**FACILITY LOCATIONS (Sites)** 

130 Waverly Street, Cambridge, MA

A. Animals Covered By The Animal Welfare Regulations	B Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMAL:  (Cois. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs	0	0	0	0	0
7. Hamsters					
8. Rabbits					
9. Non-human Primates					
10. Sheep			]		
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
· · · · · · · · · · · · · · · · · · ·					

- Professionally acceptable standards governing the care, freatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OF	FICIAI
(Chief Executive Officer or Legally Responsible Institutional Officer	cial)
Legrify that the above is true, correct, and complete (7 U.S.C. Section 2143)	

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

Dr. Joshua Boger President and CEO DATE SIGNED

61 Nn/00

APHIS FORM 7023 (AUG 91)

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UNITED STATES DEPARTMENT OF AGRICULTURE

result in an order to cease and desist and to be subject to penalties as provided for in Section 2150

1. REGISTRATION NO

FORM APPROVED 9-0036

ANIM. L AND PLANT HEALTH INSPECTION SERVICE

has recently a required by law

2 HEADQUART include Zip C

14-R-0144, Cust ld 1799

WILMINGTON, MA 01887

ith USDA,

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

CHARLES RIVER LABORATORIES, INC. 251 BALLARDVALE ST

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

**FACILITY LOCATIONS (Siles)** 

Charles River Pharmservices Charles River Laboratories 236 Blackmer Rd Southbridge, MA 01550 251 Ballardvale Street Wilmington, MA 01887 Sierra Biomedical, Div. of CRL Charles River

587 Dunn Circle Sparks, NV 89431 401 S. New Hope Rd. Raleigh, NC 27610

	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			cessary or use APHIS FORM 7023A.) *  E. Number of animals upon which teaching.	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research,	F.  TOTAL NO OF ANIMALS  (COIS. C + D + E)
4. Dogs	15	22	115		137
5. Cats	37	307	93		400
6. Guinea Pigs			692		692
7. Hamsters			338		338
8. Rabbits	19	799	405		1204
9. Non-human Primates	1219	1408	83		1491
10. Sheep	9	114	11		125
11. Pigs	24	38	344		382
12. Other Farm Animals					
Cattle		2427	21		2448
Goats / As	8	21	3		24

#### ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquitizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility
- 2). Each principal investigator has considered alternatives to painful procedures
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use

#### CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) DATE SIGNED Dennis R. Shaughnessey

V.P. Buisness Development & Senior Counsel //-/7-2000

**APHIS FORM 7023** (AUG 91)

### Attachment to #3

Sierra Biomedical, Div. of CRL 10326 Roselle Street San Diego, CA 92121 14-R-0144

Sierra Biomedical, Div. of CRL 17667 Road 24 Tulare, CA 93274

14-R-0144

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

7 7 1 8 -2000

2. HEADOI include. DR THOMAS R BECK U C B RESEARCH, INC. 840 MEMORIAL DRIVE

CAMBRIDGE, MA 02139

1. REGISTRATION NO.

FORM APPROVED 0579-0036

ed with USDA

# ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

REPORTING PERIOD 10/01/99 - 9/30/00

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Att	tach additional
sheets if necessary)	

**FACILITY LOCATIONS (Siles)** 

UCB Research, Inc.

840 Memorial Drive, Cambridge, MA

Animals Covered By The Animal Welfare Regulations	animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	TOTAL NO OF ANIMAL (Cols. C D + E)
. Dogs					
. Cats					
. Guinea Pigs		249	1,461		1,710
. Hamsters			20		20
. Rabbits		, <u></u>			
. Non-human Primates					
0. Sheep					
1. Pigs					
2. Other Farm Animals					
3. Other Animals					
,					

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is affached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

(Chief Executive (	Y HEADQUARTES RESEARCH FACILITY OFFICIAL Officer or Legally Responsible Institutional Official) above is true, correct, and complete (7 U.S.C. Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
A) Beck	Dr. Thomas R. Beck Director of Global Research	

APH(S FORM 7023 (AUG 91)

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO

FORM APPROVED OMB NO 0579-0036

-tored with USDA,

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADQ 14-R-0147, Cust ld 8980

INOTEK CORPORATION 100 CUMMINGS DRIVE SUITE 419E BEVERLY, MA 01915

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS (Siles)

INOTER CORP., 100 CUMMINGS CENTER, SUITE 419E, BEVERLY, MA 01915

REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adiditional sheets if ne	cessary or use APHIS FORM 7023A)	
A. Animals Covered By The Animal Weltare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	Number of animals upon which feaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, averaging the surgery of tests. (An explanation of the section).	F.  TOTAL NO. OF ANIMALS  (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits	4_	4			14
9. Non-human Primates					
10. Sheep					
11. Pigs	ļ	<u></u>			
12. Other Farm Animals					
13. Other Animals					
ASSURANCE STATEMENTS					

### 1) Professionally acceptable standards governing the care, freatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during,

- and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility. 2). Each principal investigator has considered alternatives to painful procedures
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICE	AL.
(Chief Executive Officer or Legally Responsible Institutional Official)	

ticertify that the above is true, correct, and complete (7 U.S.C. Section 2143)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

ANDREW L. SAZZMAN

APHIS FORM 7023 (AUG 91)

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. REGISTRATION NO.

FORM APPROVED OMB NO 0579-0036

stered with USDA,

ANNUAL REPORT OF RESEARCH FACILITY & (TYPE OR PRINT)

2. HEACT

inch 14-R-0148, Cust ld 9446

JOSEPH VILLANI DAVINCI BIOMEDICAL RESEARCH PRODUCTS, INC.

- 20 MAPLE ST

PO BOX 1125 SOUTH LANCASTER, MA 01561

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS (Sites)

Davinci Biomedical Rosewich Add. 20 Muple St Texus So. Luncuster MA 01561

REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adiditional sheets if ne	cessary or use APHIS FORM 7023A)	
A. Animals Covered By The Animal Wellare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO.  OF ANIMALS  (Cols. C +  D + E)
4. Dogs			21		21
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits					
9. Non-human Primates					
10. Sheep			3		3
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
RAT NIA			73-N/A		73 NA
MILE NIA			73-NA 143 NA		73NA +43NA
ASSURANCE STATEMENTS					

# Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

2) Each principal investigator has considered alternatives to painful procedures

President.

- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected
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	CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL
	(Chief Executive Officer or Legally Responsible Institutional Official)
	Leartify that the above is true, correct, and complete (7 U.S.C. Section 2143)

OF C.E.O. FR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

Giaseppe (Suseph) Villani

President

DATE SIGNED

9-25-00

PHIS FORM 7023 (AUG 91)

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UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.

FORM APPROVED OMB NO 0579-0036

fered with USDA,

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEAD includ 14-R-0149, Cust ld 10385 ALAN P CARPENTER

DUPONT PHARMACEUTICALS CO., MEDICAL IMAGIN 331 TREBLE COVE ROAD

NORTH BILLERICA, MA 01862

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY	LOCATIONS	(Sites)
----------	-----------	---------

Building 500-1

Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or lests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMAL  (Cols. C D + E)
4. Dogs			46		46
5. Cats					
6. Guinea Pigs					ļ
7. Hamsters					
8. Rabbits		11			1-11-
9. Non-human Primates			21		21
10. Sheep					
11. Pigs					
12. Other Farm Animals		1			
13. Other Animals					
					<del> </del>
	<u> </u>				<u> </u>

- Professionally acceptable standards governing the care, freatment, and use of animals, including approriate use of anesthetic, analgesic, and franquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)
Licertify that the above is true, correct, and complete (7.11.5.0) Section 21431

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

Alan P. Carpenter, Jr. Vice President, Medical Imaging R&

**APHIS FORM 7023** (AUG 91)

All redactions on this page are pursuant to (b)(6) & (b)(7)(c).

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

HEGISTRATION NO

:4-R-0150. Cust ld 10717 2. HEA:

SORM APPROVED OMB NO 9573-0035

tered with JSDA

ALKERMES, INC 64 SIDNEY ST CAMBRIDGE, MA 02139

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for it	hese purposes.	Attach additional
sheets if necessary )		

#### FACILITY LOCATIONS (Sites)

# 345 Vasser Street Facility

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred. conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMAL  (Cols. C D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs			176		176
7. Hamsters					
3. Rabbits					
9. Non-human Primates					ļ
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
					ļ

#### Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility

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(Chief Executive Office	er or l	UARTES RESEARCH FACILITY OFFICIAL Legally Responsible Institutional Official) e, correct, and complete (7 U.S.C. Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL		NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
Juan la jus		Richard F. Pops, CEO	4/16/0

APH'S FORM 7023 (AUG 91)

# All redactions on this page are pursuant to (b)(6) & (b)(7)(c

January market to require the law of result in an order to cease and desist and to be subject to penalties as provided for in Section 2150 additional information

0180-DOA AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.

FORM APPROVED

OMB NO 0579-0036

stered with USDA

### ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

ASTRAZENCA 35 GATEHOUSE DR WALTHAM, MA 02451

2. HEA 14-R-0151, Cust ld 11236

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.) **FACILITY LOCATIONS (Sites)** 

REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	' (Attach adiditional sheets if ne	cessary or use APHIS FORM 7023A.)	
A. Animals Covered By The Animal Wellare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or fests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMALS  (Cols. C + D + E)
4. Dogs	0				0
5. Cats	0				0
6. Guinea Pigs	0			_	0
7. Hamsters	0			_	0
8. Rabbits	0				0
9. Non-human Primates	0			<del></del>	0
10. Sheep	0				0
11. Pigs	0				0
12. Other Farm Animals	0				0
13. Other Animals	0				0
ACCHDANCE STATEMENTS					

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
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(Chief Executive Officer or Legally Responsible Institutional Official)  I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)					
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED			
Laux S. Dd	HANS G. NILSSON, U.P. S. Legen Man	7/21/00			

**APHIS FORM 7023** (AUG 91)